BUSINESS WEEK



William J. Meinel: Out of the war he brought new processes for peace (page 8)

A McGRAW-HILL PUBLICATION



WHAT DO YOU MAKE FOR THIS **NEW CAR?**

TPHOLSTERY, tires, lights, molding, wiring? No matter! You'll find that there's a Socony-Vacuum Process Product available now to help you make it better-and at lower cost.

The numbers in the picture represent a few of the many industries supplying parts for new cars. The key below lists some of the scores of special products from petroleum serv. ing these industries. Other new products and new uses for present products are being developed all the time.

Check your industry and the Process Product that can help you speed your operations and save money. Ask your Socony-Vacuum Representative for additional information and expert assistance on correct application.

SOCONY-VACUUM OIL CO., INC., 26 Broadway, New York 4, N.Y. and Affiliates: Magnolia Petroleum Company, General Petroleum Corp.



Key to this picture . . . and better processing for you!

- Radio . . . S/V Ceremuls (wax emulsions) used in forming ceramic insulators.
- Windshield . . . Special heat-transfer oils employed in laminating safety glass.
- Molding . . . S/V Sovaloid C* used in plasticizing Vinyls for window moldings, other articles.
- Upholstery . . . S/V Woolrex Oils used in making wool and mohair cloths.
- **Headlights...** Special waxes* used in powder metallurgy techniques for forming light bulb filaments.
- Tires, Hose . . . S/V Sovaloids employed as plasticizers for many rubber parts.
- Enamel-coated Wire . . . S/V Solvents help provide uniform coating for generator, starter wiring.
- Battery . . . Numerous petroleum products used in making battery cases.

*Temporarily short in supply

Another contribution from a progressive industry Socony-Vacuum Process Products



A typica

CLIPPER ing in erviced o To speed Field a spe t is equip ghts, two ig airplar ower too Enginee

this heavy nents incl ing abili weave" i ing to pro maximum



The peanut-picker tire that solved an airport problem

A typical example of B. F. Goodrich development in rubber

CLIPPER ships and other planes flying inter-ocean routes must be serviced on the spot before take-offs. To speed this operation at LaGuardia Field a special portable unit was built, it is equipped with four huge floodlights, two electric generators for starting airplane engines, an air compressor, power tools, and other equipment.

Engineers searched for tires to carry this heavy service unit. Special requirements included extra-heavy load carrying ability, a tread that wouldn't "weave" in trailer operation, cushioning to protect delicate instruments and maximum puncture resistance. Pas-

senger tires couldn't carry the load. Regular truck tires were too big.

But when they talked to B. F. Goodrich the answer was found in a hurry. For B. F. Goodrich had developed hundreds of special tires for special purposes—and one of these proved ideal. It's a farm implement tire! Ordinarily it's used on potato diggers, hay balers, peanut-pickers, and similar equipment. It's made for heavy loads. The wide-grooved tread prevents swaying. The thick tread and 6-ply construction resist punctures and chafing. It's a low-pressure tire which cushions the load.

Here's a typical example of how a tire user solved a difficult tire problem by coming to B. F. Goodrich. For B. F. Goodrich is constantly developing new tires, improving old ones (witness the nylon shock-shield now used in all large B. F. Goodrich truck tires).

When you need tires or have a difficult tire problem, see the B. F. Goodrich man. The B. F. Goodrich Company, Akron Ohio.

Truck Tires ...

B. F. Goodrich



FOR

BUSINESS WEEK

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WASHINGTON OUTLOOK

SERVICE

UNIONS WON'T BOYCOTT the National Labor Relations Board for long—not if they want to hold their anizations together.

Here's why:

NLRB is going to follow the Taft-Hartley law the letter, interpret it strictly.

It believes Congress wants: (1) All unions to register, (2) all union officials to certify their oposition to Communism.

So NLRB will be tough on unions that don't atisfy these requirements. Nonregistered unions will lose status with NLRB, suffer raiding by rival, egistered unions. Possible exceptions: such outlits as John L. Lewis' close-knit U.M.W.

The International Assn. of Machinists already sees this opening as a boost toward its goal of a million members by next May. The union will comply with the law, use it to carve machinists out of plant-wide C.I.O. units.

NLRB's new rules of procedure—required by changes in the act—will be out before Aug. 22.

The rules will underline the benefits to unions that cooperate. But they won't answer all your questions about the new law.

Many policy matters will have to wait on specific cases; thus, it will be months before the final answer is in—especially where appeals are taken.

In the beginning, important decisions will channel through Washington. But once precedents are set, NLRB will turn over as much authority as possible to regional offices.

Sen. Ball's "watchdog" committee likes the way NLRB is going at its revised job. It may have something to say about this publicly later.

How will the new law be administered? Here are some likely answers:

(1) NLRB will take jurisdiction over the building and construction industry—which it has left alone up to now. Definition of what construction is interstate—and subject to the law—will be written case by case as NLRB acts.

Big question: how to conduct union-shop elections where operations are fluid and there are few year-round employees.

(2) Nonregistered unions may be allowed to intervene in defense of a contract. But they won't get a place on a ballot, can't be certified as bargaining agents.

(3) Employers will be able to get hearings on charges against nonregistered unions.

(4) Employer petitions for bargaining elections will be accepted only where it's shown that a union seeks recognition; premature elections to forestall union organizing are out.

(5) Professional workers—and those in craft units—will be allowed to petition for severance from a plant-wide unit—but only at contract expiration or some similarly reasonable time.

SOCIALLY MINDED WASHINGTON is all a-twitter over Truman's invitation to Princess Elizabeth and Philip to tour the U. S. on their honeymoon.

'Twould be the biggest event for the hostesses since the visit of the King and Queen.

But—if the visit comes to pass, Elizabeth and Philip will be here about the time Congress is debating the Marshall plan. Never underestimate the power of a woman!

AGRICULTURE DEPT. sees no slump through next year in demands for continued all-out production down on the farm.

First of the '48 crop planting goals—for wheat—sets a record target of 75 million acres; it compares with a call for 70 million acres this year, a war-years' average of 62 million.

(But farmers overplanted this year's goal at least 5 million acres.)

Potato planting goal for '48 bids for another 375-million-bu. yield.

Coming soon: spring pig goal. It will be at least equal to last year's target—which farmers failed to meet. It may go higher.

Goals for spring-planted crops won't be out until November. But they'll add up to an official request for another year of record production.

BEHIND THE HEADLINES—and the politics—of the Hughes investigation there's a law in the making.

It's a law seeking to write "arm's length" dealings into the relations between government procurement officials and contractors.

For instance, both Brewster and Ferguson talk about prohibiting military procurement officers from taking jobs—after a war—with companies with which they did business during the war.

Also, Brewster thinks civilians drafted into gov-

WASHINGTON OUTLOOK (Continued)

ernment jobs in wartime should be required to sever all business connections. And he would bar them from any dealings involving their old firms.

The senators' idea is to put these provisions, and more, into a permanent code covering negotiation, renegotiation, and settlement of war contracts. They would pass the law next session, make it effective whenever normal government buying techniques are tossed overboard to speed procurement.

SHOWDOWN IS COMING soon in the Federal Trade Commission over Commissioner Mason's campaign to shift operations to the trade-practice conference technique (BW—Jun.14'47,p6).

Veteran Commissioner Ayres—with an unexpected Truman reappointment in his pocket—is mad at Mason's belaboring of FTC's "hit and miss" enforcement, based on individual complaints.

Ayres demands a commission vote on Mason's proposals. Decision is likely before month's end.

Good bet: Mason will lose out.

SPECIAL CONGRESSIONAL ELECTIONS this fall will give you a small taste of how the political winds are blowing

The G.O.P. faces challenges on its record in the '47 session in three, possibly four, districts—in Pennsylvania, Michigan, Illinois, and, maybe, Ohio.

Best prospect for judging voter reaction: the 21st Illinois district. Boundaries have been shifted some since last year's voting but the district has been Republican since 1940; before that it was the late Speaker Rainey's bailiwick.

Vacancy stems from Evan Howell's resignation to become a judge. Date for voting isn't set but November is likely

First recess contest comes up Aug. 26 in Michigan's 11th district, for the seat of the late Fred Bradley.

It's an all-vet race—legless G.O.P. Charles E. Potter vs. Democrat Harold D. Beaton. Republicans are almost sure to keep this seat.

Next comes the Sept. 9 vote in the 8th Pennsylvania district—G.O.P. since '38. Republican nominee is Franklin Lichtenwalter, speaker of the State House of Representatives; his opponent is an Allentown veteran with 18 months overseas.

This one may be close, but the G.O.P. has the edge.

Fourth possible contest is for the seat of Rep.

Bob Jones in the 4th Ohio (Lima) district. B Ohio often passes up special elections, and not has yet been called.

There are three other off-year elections on the summer-fall schedule.

Texans vote Aug. 23 in the 9th district to place the late Joseph J. Mansfield; in the 16th district to pick a successor to Ewing Thomason, who quit to become a judge.

New York's 14th also is vacant. No date set for this one.

All three of these are a cinch to remain Dem_0 cratic.

GOVERNMENT PRINTING OFFICE is promoting sales of a 39-volume set of official Pear Harbor inquiry hearings.

GPO sales pamphlet calls the books a 3½-h bookshelf from which you can find out for yoursel the how and why of the Japanese attack.

Also — to attract rare-book collectors — promises there'll be no reprints.

Price: \$40.

BEHIND TRUMAN'S VETO of the science foundation bill (BW—Aug.2'47,p28):

The Administration group that fought for the bill last year now has concluded that money for scientific research and training is no problem—yet Military research activities and G. I. scholarships if galready are bigger than scientific manpower can handle.

So what the Truman people want is to conserve manpower by tighter correlation of federal expenditures. A part-time semigovernmental board can hardly do this.

Future strategy: executive appointment of a science coordinating body sometime in the fall; shelving of the foundation bill—so far as active pressure is concerned—until G. I. benefits run out.

• John R. Alison, new Assistant Secretary of Commerce for Aeronautics, is an airman's airman. He flew with the air commandos operating with Wingate's raiders in Burma, taught British to fly P-40's and Russians to assemble them. His new job includes overhauling CAA. . . .

• Industrial expansion in the United States, now running just under \$4 billion quarterly, is nearly double the peak wartime expansion rate of just over \$2 billion for the third quarter of 1942.

BUSINESS WEEK . Aug. 9. 1947



if gasoline were sold in sacks...

it would be easy to stencil everything you'd like to know about the ingredients it contained right on the sack. However, gasoline is generally delivered direct to your gas tank, sight unseen. Oil companies can't label each gallon. That's why they put the familiar yellow-and-black "Ethyl" emblem on their pumps to show that they have improved their best gasoline with "Ethyl" antiknock compound. This famous ingredient, which improves engine power and performance, is made by the Ethyl Corporation, Chrysler Building, New York 17, New York.

look for the ETHYL trade-mark



Saks Fifth Avenue, Another Webster Moderator System



SAKS & COMPANY, Fifth Avenue, New York, N.Y. Built 1924, Architect: Starrett and Van Vleck. Heating Contractor for original installation: Gillis and Geoghegan. Heating Modernization 1944 by Contractor Thomas J. Dorsey, Inc.

From the time Saks Fifth Avenue, the "world's most luxurious store", was built in 1924 reliable heating has been provided with a Webster Vacuum Steam Heating System.

In 1944, to cooperate in the wartime fuel conservation program, Saks discontinued their oil burning boiler plant, arranging to use metered steam purchased from the New York Steam Corporation.

To assure minimum steam charges at all times the installation was converted to a Webster Moderator System. Radiator valves were equipped with expertly sized Webster Metering Orifices. Automatic continuous "control-by-the-weather" was provided by the Outdoor Thermostat.

Under the competent operation of the Engineering Department of Saks Fifth Avenue the Moderator System affords comfortable heating regardless of outdoor temperatures. "Operability" of the System is demonstrated by the fact that each year since its installation, economy in steam consumption has increased.

If your heating system is without control, or with inadequate control, we solicit the opportunity to go over your problem with you. Use our experience to help you in your heating management problems.

WARREN WEBSTER & CO., Camden, N. J. Representatives in principal U. S. Cities : : Est. 1888 In Canada: Darling Brothers, Limited, Montreal

Welster
HEATING SYSTEMS

THE COVER

William J. Meinel's father was one who believed that if a boy wasn't ready to face the world at 14, he never would be ready. So young Bill, at the age of eight, began studying mechanical drawing. A year later his study had progressed to engineering subjects; this meant night school work in addition to attendance at Philadelphia's public schools.

In 1908, when he was barely 15, Bill Meinel became a machinist's apprentice. In his spare time he studied mechanical engineering and business administration at Franklin Institute and Temple University. Eight years later he joined the Edward G. Budd Mfg. Co. (now the Budd Co.) as superintendent of the tool and die department. By 1932, when he left Budd, he was vice-president in charge of operations and a director.

• An Old Friend-Friendship played a big part in the shift he made at that time. Ten years earlier Leo Heintz had left Budd to form the Heintz Mfg. Co., a metal stamping and fabricating concern. Heintz died in 1931, leaving a company with a splendid reputation but a sheaf of frozen assets. The following year, Mrs. Heintz persuaded Meinel to leave Budd and become its president and general manager.

Meinel immediately won the workers' confidence. He promised that every dollar of dividends would be matched by a dollar in employee bonuses. That policy currently amounts to about a month's extra pay for workers each year.

• War Job—Under Meinel's leadership,

• War Job—Under Meinel's leadership, Heintz performed outstanding war service. Its most spectacular effort was the design and construction in one month of the "Calliope," the 60-tube rocket launcher for use on tanks.

Now back in its peacetime role, Heintz is resuming the policy laid down by its president years ago: to achieve the utmost diversification so as to eliminate seasonal peaks and valleys. That calls for new processes, new techniques—combined with engineering and managerial ability. Customers and competitors agree that Heintz, under Meinel, has more than its share (page 21).

• Outside Interests—Meinel finds time to serve as a director of the Federal Reserve Bank of Philadelphia, vicepresident of the Philadelphia Chamber of Commerce, trustee of the Philadelphia College of Pharmacy & Science, and president of the Philadelphia post, Army Ordnance Assn.

The Pictures—Republic Steel—15; Westing-house—17; Acme—25; Press Assn.—29; Christy Shepherd—57; Art Streib Studio—58; Charles Phelps Cushing—62; McGraw-Hill Studios—66; Ford News Bureau—70; Int. News—85; Shelburne Studio—88.





Famous "JEEP"
equipped with
Quincy Compressor provides excellent portable
compressed air
supply.

AIR COMPRESSOR ACCESSORY FOR THE

Now, compress alr "on the spot" with this new Quincy unit that can be mounted on any "Jeep". Regular power take-off operates compressor at full capacity. Quincy Compressor is easily removed when not in use. This is another case where Quincy has developed a special compressor to meet the requirements of a leading manufacturer. More than 100 well-known makes of machines and equipment that utilize compressed air are equipped with Quincy Compressors. Quincy builds air compressors. exclusively in a complete line of sizes, ranging from 1 to 80 c.f.m. in air and water-cooled models, Call in a Quincy Specialist to help select correct size and type compressor to meet your requirements. Write Dept. W-87, QUINCY COMPRESSOR CO., Quincy, Illinois.

Quincy Compressors for many jobs
DRIVING • CHUCKING • LIFTING
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ISINESS OUTLOOK

INESS WEEK

SERVICE

Familiar reports of "gains over a year ago" must be expected to become fewer and fewer as the months roll by.

Even with rising prices, there is a limit. Department store sales last August, for example, soared to phenomenal levels; dollar volume now is falling behind those marks. New York sales were off last week.

The same factors are at work in most lines with the biggest booms.

Importance of the June decline in export volume (page 86) cannot yet be fully appraised. Yet the implications are disturbing.

It has been pointed out by all hands that we could not hope to continue such a huge "favorable balance." England's troubles, highlighted by Prime Minister Attlee on Wednesday, are a typical indication (page 83).

Net exports in June were at an annual rate of more than \$2 billion less than May. That isn't much to the over-all economy.

But any further decline can begin to hurt. There is little doubt that sales abroad spell the difference between full-tilt operations and a cutback in activity for some industries.

Foreign holdings of gold and dollars probably are down to around \$16-billion. They amounted to an estimated \$18 billion last March and to \$20-billion at the end of the war.

Most of the reduction undoubtedly has been in the balances of countries that could least afford it. Western Europe provides an example.

And Britain's drafts on its dollar loan are not slackening.

Manufacturers' sales declined each month from March through June. If you allow for the number of working days, however, June was up 3%.

Value of sales has declined from about \$13.9 billion in March to \$13.6 in June. First the decline was in soft goods. Later, there was some reduction in durable lines.

It should be noted, however, that changes in durables have been largely in autos. This reflects production interruptions, not demand.

Some of the March-June decline in manufacturers' sales of soft goods can be traced to the price decline in that period.

However, prices have stiffened recently. Moreover, new orders have risen. Both contributed to a comeback in dollar volume in July.

Wholesaling has leveled off right along with manufacturing.

Dollar volume of 2,947 wholesalers reporting to the Dept. of Commerce for June was just about unchanged from May. These firms' inventories, valued at cost, also were very little changed.

Compared with a year ago, however, June sales were up 22% and inventories 64%. For the half year, sales topped 1946 by 24%.

Meanwhile, credit extended has topped the sales rise. Accounts receivable in June were 38% above a year earlier. This is a potential trouble spot should sales volume decline later in the year.

It takes a lot of storage space to handle the goods of a full economy. Or is it, maybe, that merchandise of some types is piling up?

BUSINESS OUTLOOK (Continued)

BUSINESS WEEK AUGUST 9, 1947 Whatever the reason, public merchandise warehouses have been about 90% full all this year. Occupancy dipped last summer, but not this time. Result is a gap of five percentage points between this season and last.

At this time in 1940 (to get an idea of previous peacetime experience) merchandise warehouses were only 72% occupied. These figures, of course, do not include cooler and freezer space for perishables. Occupancy of these is subject to very wide seasonal variations.

Manufacturers continue to build inventories even though wholesalers and retailers began to cut theirs a couple of months back.

In May and again in June, factories added \$300 million to stocks. That's a little less than earlier in the year, but it's still high.

In June, latest month for which figures are available, the rise was almost entirely accounted for by manufacturers of durable goods. This accentuates the caution that has been growing in soft lines since October.

Steel people, incidentally, are beginning to wonder what auto plants are doing with the foundry products they are buying. They keep on taking deliveries even when they have to shut down for lack of sheet steel.

This may not be an important matter. Yet there is danger of overbuilding stocks of things you can get while limping along on scarce items.

Producers of metals now scarce have reason to worry about what may have happened to their customers once supplies are again adequate.

Lead is a good example. Even with substantial imports, consuming industries in this country are barely scraping by. But Robert L. Ziegfeld of the Lead Industries Assn. gave Montana miners some sobering ideas in a speech this week.

Foil took 45,000 tons of lead in 1941, only 4,000 in 1946. Experience in collapsible tubes is of the same sort.

Plastics are coming in as <u>cable sheathing</u>, and neither titanium nor zinc is waiting for lead to come back in <u>paint pigments</u>. Steel, iron, copper, and brass are taking lead's place in <u>plumbing</u>.

Babbit metal can be forced out by roller bearings. DDT and other insecticides that don't use lead are gaining popularity.

But: A lot of lead is used and will be used in atomic fission.

Wage agreements just concluded by Kennecott and American Smelting & Refining remove the strike threat from nonferrous metal markets.

Users earlier had been worried over deliveries. They were not, however, jumping in and buying. Markets continue in their midsummer quiet; analysts now, more than ever, think the next major trend will be down.

Even lead-consuming industries are becoming inventory conscious.

Seasonal gains in over-all employment obscure the fact that manufacturing isn't expanding. Separations topped hiring in both April and May. That reversed a trend that had been conspicuous ever since late 1945.

Meanwhile, separations (quits, firings, layoffs) have shaken down at around 50 for every 1,000 workers in manufacturing.

During the war, separations got up around 80 to the 1,000; in prewar 1939, with jobs much harder to find than now, they averaged around 30.

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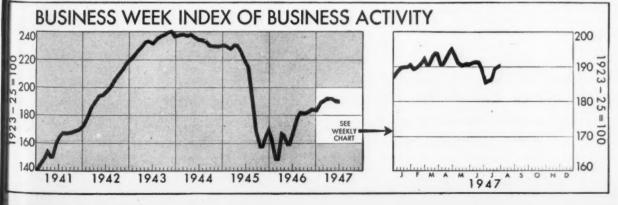
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USINESS

FIGURES OF THE WEEK

	\$ Latest Week	Preceding Week	Month Ago	Year Ago	1941 Average
THE INDEX (see chart below)	*190.8	190.2	186.0	183.1	162.2
RODUCTION					
Steel ingot operations (% of capacity)	94.9	94.4	78.9	89.0	97.3
Production of automobiles and trucks	94,408	183,862	66,460	79,385	98,236
Engineering const. awards (Eng. News-Rec. 4-week daily av. in thousands)	\$18,738	\$17,443	\$18,359	\$21,109	\$19,433
Electric power output (million kilowatt-hours)	4,806	4,730	4,190	4,351	3,130
Crude oil (daily average, 1,000 bbls.)	5,088	5,084	5,065	4.881	3,842
Bituminous coal (daily average, 1,000 tons)	#	#	#	2,083	1,685
TRADE					
Miscellaneous and L.C.L. carloadings (daily average, 1,000 cars)	84	83	85	85	86
All other carloadings (daily average, 1,000 cars)	69	70	56	67	52
Money in circulation (Wednesday series, millions)	\$28,129	\$28,145	\$28,409	\$28,254	\$9,613
Department store sales (change from same week of preceding year)	+4%	+8%	+3%	+33%	+17%
Business failures (Dun & Bradstreet, number).	69	76	82	14	228
District and the state of the s	0,	,,	02		220
RICES (Average for the week)					
Spot commodity index (Moody's, Dec. 31, 1931=100)	418.8	418.4	403.7	350.7	198.1
Industrial raw materials (U. S. Bureau of Labor Statistics, Aug., 1939=100)	268.1	†268.5	261.5	208.9	138.5
Domestic farm products (U. S. Bureau of Labor Statistics, Aug., 1939=100)	372.3	374.0	360.8	311.0	146.6
Finished steel composite (Steel, ton)	\$74.77	\$69.14	\$69.82	\$64.45	\$56.73
Scrap steel composite (Iron Age, ton)	\$41.75	\$40.83	\$35.58	\$19.17	\$19.48
Copper (electrolytic, Connecticut Valley, lb.)	21.500¢	21.500¢	21.500¢	14.375¢	12.022¢
Wheat (Kansas City, bu.)	\$2.27	\$2.32	\$2.15	\$1.94	\$0.99
\$Sugar (raw, delivered New York, lb.)	6.19¢	6.19e	6.19¢	4.20¢	3.38¢
Cotton (middling, ten designated markets, lb.)	35.70¢	36.79¢	36.92¢	34.17¢	13.94¢
Wool tops (New York, lb.)	\$1.640	\$1.628	\$1.553	\$1.440	\$1.281
Rubber (ribbed smoked sheets, New York, lb.)	15.57¢	15.94¢	14.58¢	22.50¢	22.16¢
INANCE					
90 stocks, price index (Standard & Poor's Corp.)	124.7	125.9	123.9	142.7	78.0
Medium grade corporate bond yield (30 Baa issues, Moody's)	3.16%	3.17%	3.19%	3.03%	4.33%
High grade corporate bond yield (30 Aaa issues, Moody's)	2.56%	2.55%	2.55%	2.50%	2.77%
Call loans renewal rate, N. Y. Stock Exchange (daily average)	11-11	$1\frac{1}{4} - 1\frac{1}{2}$	11-11	11-11	1.00%
Prime commercial paper, 4-to-6 months, N. Y. City (prevailing rate)	1%	1%	1%	4-7%	1-8%
ANKING (Millions of dollars)					
Demand deposits adjusted, reporting member banks	47.145	47,187	46,602	45,650	++27,777
Total loans and investments, reporting member banks	63,479	63,513	63,371	69,077	††32,309
Commercial and agricultural loans, reporting member banks	11,967	11,883	11,809	8,916	116,963
Securities loans, reporting member banks	2,118	2,020	2,252	3,764	††1,038
U. S. gov't and gov't guaranteed obligations held, reporting member banks	38,739	39,154	38,990	47,808	††15,999
Other securities held, reporting member banks	4,232	4,165	4,104	4,019	††4,303
Excess reserves, all member banks (Wednesday series)	800	700	550	856	5,290
Total federal reserve credit outstanding (Wednesday series)	22,310	22,093	22,145	24,164	2,265
Preliminary, week ended August 2nd	*Date f		Week" on edimate (B.W.		





Home Town Folks

Wherever there is a Bell telephone office, you will find it operated and managed mostly by home town people.

For the Bell System is made up of many hundreds of local units, each serving its own community. So the telephone company isn't something big and far away but close to your home and your interests. This means compact, efficient operation and it also helps to keep a friendliness and a neighborliness in the conduct of the telephone business.

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The Bell telephone people in your community aim to be good citizens in all things, in addition to giving you good and economical telephone service.

BELL TELEPHONE SYSTEM

BUSINESS WEEK

NUMBER 936 AUGUST 9, 1947



STRIP STEEL, although rolling at high speed, is outstripped by demand.

Shortages Keep the Brakes On

Two years after war's end, suppliers still have to allocate materials in nearly every industry. So businessmen still don't know how much they can get. Result: hobbled production, high prices.

Ask any businessman what is worryng him these days, and the chances are
that he will name two things immeditely-rising prices and shortages of
goods and materials. With manufacturtrs, retailers, and wholesalers, big and
little, it's the same story all over the
country.

To a large extent, these two probems tie in together. It is the shortages of materials that have kept production from rising fast enough to knock prices down.

False Hope—When industry was first tarting on reconversion, most businessnen thought that it would take only a two months of good production to clean up the major shortages. But this week two years after the end of the warkey still don't know from one month to the next how much of many things hey can get.

A Business Week survey of major ompanies all over the country shows hat in almost every industry suppliers still have to allocate at least some of their lines among customers.

• Steel—The worst of today's shortages—in comparison with demand—is steel. As a result, steel makers have established what is probably the tightest allocation system of any industry in the U.S.

As soon as government controls came off, the big steel companies started an informal allocation of their own. They base it mainly on prewar use. (In a few cases they have allowed extra shipments to take care of emergency needs. Railway car builders, for instance, got their quota boosted after Congress and the Office of Defense Transportation started running temperatures over the lag in car production.)

• How It Works—For a more or less typical example of the way steel allocations work, take the case of a fabricating company in Baltimore. Here is its

"We are on allocation from all mills,

with quarterly supplies based on 1938 to 1941. That's all right except that we think we ought to get more than we do because the mills were running only 65% to 70% of capacity eight years ago and now they are hitting 95%. Our shops could have used 20% to 25% more of hot rolled products in the first half of this year. In the fourth quarter, the mills won't promise more than about 80% of what we want, and since they are now 30 days behind in their orders it looks like the last part of the year is going to be a tough time."

Like a lot of other companies, this firm has been able to better itself by shopping around among warehouses in its section. But it still is a good way short of getting all the steel it would like to have.

• Other Industries—Outside the steel industry, allocation systems are likely to be less rigid. Most firms like to stick as close to prewar distribution patterns as they can (BW—Sep.7'46,p17; Sep. 21'46,p19). But many of them also want to make allowance for population shifts and other factors that have changed the sales potentials of various areas in the last five years. As supplies have loosened up a little, some companies have gone back to a first-come-first-served basis—even though they still don't have enough to meet all of the demands.

For instance; Thompson Products, manufacturer of automotive parts, dropped quantity limits in filling orders about a year ago. If a customer asks for 400 pistons and it has that many on hand, it will ship them even if it means exhausting the stock for the time being. As things staad, it can fill about 73% of the orders immediately, and it can 'take care of most of the others within a week.

One big electrical-goods manufacturer has worked out a complicated formula for allocating appliances to jobbers. It uses an area purchasing power index and takes into account both population shifts and prewar use. For dealers, it has a somewhat similar system. But it gives less weight to prewar experience because the turnover in dealerships has cleaned out a large number of the old ones.

• Dislocations—In most short lines, the supply situation is likely to be spotty. One producer will be able to fill a bigger proportion of his orders than another can. Or one region will be getting a fairly comfortable allotment while others have their tongues hanging out. But as a rule, a commodity that is short one place is short everywhere. And

Tax Duplication: A Start Toward a Solution

One thing that always has exasperated taxpayers is the way federal and state taxes overlap and duplicate each other. Historically, as soon as one opened up a likely source of revenue, the other would move in on it. As a result, the taxpayer often wound up getting hit twice in the same place.

• Treasury Report—The latest contribution toward straightening out the muddle is a lengthy study by the Treasury's tax research staff. While the study does not commit the Treasury to anything, it is intended to serve as background for the grand-scale revision of the tax laws that Congress has been promis-

ing to write.

According to the Treasury's estimates, in the fiscal year ended June 30, 1946, both federal and state governments got about 90% of their revenues from the same general sources (chart). These included taxes on incomes, estates and gifts, liquor, tobacco, gasoline, admissions, and stock transfers. Federal revenues in that year totaled \$38,971,000,000. State revenues came to \$4,919,000,000.

• Income Tax Question—The Treasury is inclined to brush aside the argument that states should get out of the personal income tax field now that the federal government is de-

pending on it for around \$18 billion a year. The study points out that the federal government allows taxpayers to deduct state taxes from taxable income. Some 20 of the 29 states imposing an income tax allow federal taxes as a deduction.

The deductibility feature cuts down the duplication considerably, especially in the top brackets. In the lower brackets, the states generally have higher exemptions than

the federal.

The Treasury is more concerned about straightening out estate and gift taxation, which it regards as sadly out of date. And it thinks the states might as well get out of tobacco taxation entirely. The experts argue that the states cannot police their tobacco taxes because of the interstate traffic in cigarettes. Consequently, they probably would be better off to pull out of the field and let the federal government collect 2¢ a pack from manufacturers to be prorated among the states.

• Gas Tax Cut?—Gasoline taxes, the Treasury thinks, is a field the federal government might well vacate. But it softens the conclusion by adding that the effects of overlapping "are perhaps less serious in the field of gasoline taxation than in any other realm of federal-state duplication."

except for a few specialty items that account for negligible tonnage. Sheet and strip are tightest of all. One thing that complicates the situation from the customer's viewpoint is the mills' system of rolling one product for long periods. If a man wants something else, he has to wait until its turn comes up.

Nonferrous metals. Copper is a shade easier. But it's still tight enough to the up production of electrical equipment. Tin and lead are still tight.

Heavy chemicals. The worst shortages are in soda ash and caustic soda. Chlorine is still tight but is easing up a little.

Plastics. Practically all types of plastics are desperately short. Among other things, this has tied up electrical equipment production. In the past few months bakelite powders have been a little easier to get, but there still isn't enough to meet demand.

Textiles. Soft woolens are not hard to get now, but worsteds are tight as ever. Most mills have some sort of allocation system on their shipments. But there are so many middlemen in the textile industry that any precise method of doling out supplies is out of the question. About the same thing goes for cotton and rayon.

Some of the big clothing manufacturers are rationing their output to retailers. Small cutters usually sell to the first buyer unless they have long-standing connections with a particular retailer.

Rubber. The government still controls crude rubber, but most rubber products are off allocation now. Conspicuous exceptions are conveyor belts and foamed rubber products (cushioning material, flooring, and the like). Goodyear is still allocating its pliofilm packaging material.

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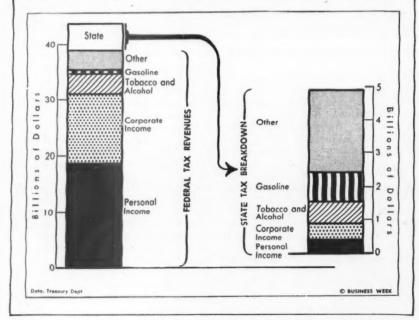
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• Consumer durables. With only a few exceptions, manufacturers have to allocate anything with steel in it or anything electrical. The list includes refrigerators, ranges, washing machines, toasters, mixers, some radio models, some vacuum cleaners, various other appliances, and hardware of all sorts. Bendix recently stopped allocating its washers, and Monitor Distributing Co. has taken the limits off its vacuum cleaners. But these are exceptions—at least among the better known brands; many unknowns in electrical appliances are a drug on the market

Automobiles. Without exception the automotive manufacturers have allotment systems to spread current output among dealers. Most of them use prewar sales as a base. They reserve 80% to 90% for old dealers (including about 10% for export), and use the rest for new dealers, special cases, and the like. When a new dealer is appointed, he usually gets a quota based on an estimate of the sales potential of his territory in comparison with other dealerships.

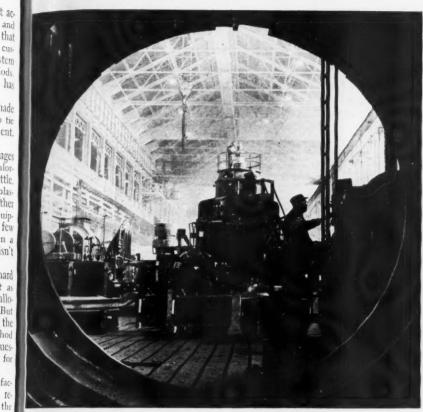


would-be customers all over the country are worrying pretty much about the same things.

Here's an abbreviated roll call of

some of the major commodities that still are short enough to move under some sort of allocation system:

Steel. All kinds of steel are short,



POWER GENERATORS are coming off assembly lines-but not fast enough.

U. S. Power Shortage Looms

Wartime brownout may return this winter because there's not enough equipment to meet electric demand. Midwest will be hardest hit, New England least. Big users to be curtailed.

The wartime brownout may return to the U.S. this winter. At least, that's the prospect for some sections of the country. Reason: There just isn't enough generating and other equipment to meet the high demand for electric power. And that means that any conservation program will first hit nonessential power users, such as advertising display

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• Midwestern Threat-Nowhere in the nation will reserves be really adequate this winter except in New England. But the region most seriously threatened by a power shortage is the area east of the Mississippi River and north of the Ohio. That includes the midwestern industrial area, where the pinch will really be tight. And some local spots in that section can be even worse off. For example, Minneapolis and St. Paul may be hardest hit of all the cities in the shortage area.

Elsewhere, this winter's lights may burn brighter than in the Midwest-but still below normal. Florida has long been tight on electricity. Arizona is in trouble now; Texas seems on the verge of it. Small municipal systems in particular could suffer seriously from the power shortage.

• Two Factors-The potential shortage can be explained by two factors: (1) high demand; and (2) equipment short-

In 1946, industrial power consumption dropped 6.3 billion kwh, from 1944's wartime high. But residential, rural, and commercial use all topped war peaks, pushed last year's total output slightly above 1945.

This year, over-all demand is still higher. But that doesn't tell the whole story. The load factor-ratio of average use to use in peak periods—has dropped sharply. (It was down 7.6% last year from 1945, may go even lower this year.) That means that a larger proportion of power use is coming in the hours of peak-demand-thus putting a tremendous added strain on power-generating

The big test will come in December. Reason: Shorter days create more demand for electric lighting in homes and offices; during the year's shortest days this demand reaches its peak at hoursin the morning and the late afternoonwhen industrial demand is also at a high level.

 Equipment Lack—The biggest bar to an effective effort to avert the shortage is lack of equipment. During the war, turbines, boilers, pumps, switchgear, and the like could be made for civilian power use only when absolutely necessary. A synthetic rubber industry, a seven-ocean Navy, and a swarm of merchant ships were abuilding. They took the same men, materials, and shop space that were needed for central-station

To make up for lost time, utilities were given a quick go-ahead on their backed up orders around V-E Day. But it takes 15 to 24 months to build a turbine generator, much longer to get it operating. On top of that, major electrical manufacturers were hit by a strike in 1946 (one top turbine builder was tied up for nearly a year). The steel strike delayed the delivery of necessary materials; the coal strike delayed the delivery of steel; copper became a scarce metal.

Result of all these factors: 1946 installations were pushed a million kw. behind schedule.

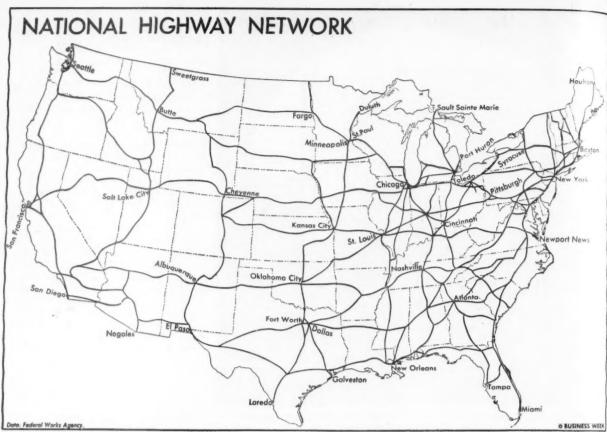
By the end of this year, the industry will be only 500,000 kw. behind schedule. But materials still do not flow as they should, and labor productivity is off. There is a shortage of steel-priority has been granted to heavy steel mill equipment.

· Possible Answers-What can the utilities do about stretching their limited power?

One answer could be the interconnection of one system with another, especially in the Midwest. But such an operation requires a lot of time-and equipment. Thus it could probably not be done this year.

The most likely out if the threat develops into a real shortage would be to ask big power users to curtail. Sign lighting, air conditioning, noncontinuous process chemicals, perhaps even electric furnaces, could spare kilowatts for a while. If these weren't enough, cuts would have to go deeper in industry. But whatever happens, the householder would get energy, would only be asked to conserve electricity as much as possible

• No National Shortage-One bright spot for businessmen especially to remember is that any shortage would be far from nationwide. Also, it would be serious only during the winter months this year. In 1948-49, most areas will have better reserves. And by the winter of 1949-50, the industry should be completely out of the woods with enough power for all parts of the country.



THE INTERSTATE SUPERHIGHWAY system announced by the Public Roads Administration last week end is still pretty much in the future. Plan is that the 37,681 mi. of routes will eventually be improved to meet design standards approved by the American Assn. of State Highway Officials. These call for four-lane divided highways on roads with peak traffic of more than 800 vehicles per hour, six-lane, limited-access roads where peak load is over 3,000

cars per hour. But states are under no compulsion to spend highway funds—even federal-aid funds—on these projects. No official estimates of how long it will take to do the job or of the total cost have been made. But it is generally agreed that the outlay will come to many billions; 15 to 20 years have been mentioned as the minimum time. Most of the roads already exist. They include about 1% of the nation's roads, carry about 20% of its intercity traffic.

Price Kickoff

G.M. starts new round of increases on autos. Ford may not go along. Next year's models expected to cost even more.

Prices are going up another notch on automobiles. And Detroit, chewing over the situation, sees no way to go but up on 1948 models.

• G.M. First-General Motors Corp. kicked off the newest round of advances. It announced a "reluctant" upward adjustment of 2% to 6% in list prices on its passenger cars and trucks of all makes. Price adjustments on nonautomotive products, the company said, will follow the vehicle pattern. Automotive service parts will not be changed.

The announcement was no surprise to Detroit. But it would be a surprise if the industry failed to move into line with the G.M. advances. By midweek, Packard and Kaiser-Frazer had already taken the step. Packard raised all prices an average of 5%; K.-F. boosted the Frazer about 5%, left other models unchanged. The one doubtful follower is Ford; a few weeks ago it stated its intention of trying to hold the price line.

• Costs—The advances had been expected because of increased costs. Since the last round of general increases, higher wage levels for labor have gone into effect—about 15¢ an hour in most auto plants.

The advance of steel prices by \$5 and more a ton during the past fortnight was passed on to auto companies almost immediately by most suppliers. In direct application, the steel prices alone raise costs about \$10 a car; to this must be added profits taken along the line by fabricators and processors.

General Motors, supporting its price advances, reported that its labor bill was up 12% because of its April, 1947, wage contract with the auto union (BW –May3'47,p83).

• Specific Figures—Beyond that, G.M. had some highly interesting tabula-

tions on cost advances since November, 1946, the date of its last general increase. Steel has gone up 17% since then, said the company; pig iron, 29%; copper, 26%; tin, 22%; lead, 43%; cotton, 23%; wool, 12%.

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Only crude rubber was on the favorable side: Natural rubber is 30% lower than in wartime. But tires have not gone down that much because of labor costs.

• Inventory, Too—Inventory profits, too, appear to be about finished. G.M.'s president, C. E. Wilson, remarked that "increased costs were only partly effective in the first half of this year, during which period General Motors was able to show reasonably satisfactory earnings through liquidation of lower-priced materials. These materials, purchased at lower prices, have now been consumed and must be replaced at current higher prices."

For 1948, Detroit sees no turn in the trend. Some guess that 1948 models, on the average, will cost from 3% to 5% more than their 1947 coun-

terparts.

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lack Market in Yellow Metal

Gold is in big demand as a hedge in countries with wobbly rrencies—even at high paper premium. But dealings make tough for monetary officials. U. S. Treasury cracks down.

The old-fashioned international gold ndard has been a dead duck ever ace the Great Depression hit it back the early 30's. But gold has been oney or the basis of money for so my centuries that people still grab it when they feel their own local mencies falling out from under them, and so today the ghost of the old gold ndard is rising up to haunt internanal monetary authorities.

Anywhere that local currencies are aky (which covers a large part of the orld these days), a lot of people would ther have gold than folding money. get it, they will pay fancy premiums terms of their own money. In a few ses, they even will pay a premium ce in good American dollars, although e dollar and the Swiss franc are the ongest currencies in the world today. Fighting Odds-This scramble for the ety of the yellow metal makes life t that much harder for the officials the International Monetary Fund. heir job is to prop up the wobbling rrencies of the world. It's a tough ough assignment all by itself. And the citizens of the various countries traffic in gold at prices far above official rate, formal attempts at bilization are like giving the wrong ds in a crap game.
That's why the U. S. Treasury and

That's why the U. S. Treasury and e monetary authorities of other counces have begun cracking down on the lack markets" in gold. Their object to stop the private trading and keep e gold traffic on a government-to-

emment basis.

Changes Put Forth—Next week the reasury will hold hearings in Washingm on a set of proposed amendments its regulations on export of gold from e U.S.

One of the proposed changes will retict exports for industrial and artistic es to semiprocessed gold. This means more shipments of gold bars under license for industrial use. The Treasy figures that it is too easy to sideick bar gold into a black market once gets out of the country. If the metal wes here in the form of gold teeth, s more likely to wind up in somedy's mouth, which is where the monary authorities intend it to go.

Refining Operations Hit—Another portant change will tighten up the les under which refiners in this councan import gold-bearing ores, process em, and export the product.

Under present regulations, a refiner

can do pretty much what he pleases with gold that he extracts from imported ores. American Smelting & Refining Co., for instance, has made a public offer to bring in Canadian ore and sell the gold extracted from it outside the U. S. at a premium. Under the new rules, the Treasury will forbid export of gold recovered from imported



In Mexico, a new facade.

SQUIBB EXPANDS

Add to the swelling list of U. S. firms in Mexico: E. R. Squibb & Sons.

Built by a Mexican contractor, the new \$300,000 plant just outside Mexico City is picking up operating speed. Better than half of the 125 Squibb products currently on the Mexican market are to be manufactured here. A distribution setup is being arranged with 24 wholesale representatives who are scattered throughout the republic.

There are three major buildings on the flower-bedecked site. But Mexico's medical profession is chiefly interested in one devoted to producing penicillin. The output aim is 20 billion units a

month

Richard W. Plummer, formerly with E. I. du Pont de Nemours & Co., is general manager of Squibb's Mexican operations; Dr. Miquel E. Bustamante, noted Mexican physician and teacher, is medical director. ores except to the country of origin.

• Not for Dollar's Sake—The Treasury isn't clamping down on the export regulations because it has any worries about the gold position of the dollar. There is plenty of gold in U.S. reserves now. And with the balance of trade running heavily our way, there is more coming in all the time.

At present, the monetary gold stock of the U. S. adds up to about \$21.5 billion. This represents close to two-thirds of the total world supply. It makes the U. S. far and away the biggest gold-

holding country.

• Rules Anyway—Strictly speaking, the U.S. is not on a gold standard any more. But our rules for handling the metal give about the same result for most purposes. Private citizens in this country cannot own unfabricated gold. They have to sell it to the Treasury, which pays them \$35 an ounce for it. Similarly, individuals cannot ship gold out of the country except under special license for industrial, professional, or artistic use.

This gives the Treasury complete control of the U. S. gold stock. In dealings with other countries, the Treasury stands ready to transfer gold if necessary to make up a deficit in the balance of payments, but it handles all the negotiations itself. Individual exporters and importers have nothing to do with

gold movements.

• Reserve—Internally, the gold stock acts as a reserve against currency and bank deposits. This keeps the bookkeeping of the Treasury and the Federal Reserve Banks straight and methodical, but it gives only psychological comfort to the ordinary holder of a \$10 bill. U.S. currency is not convertible; the holder cannot take it to the Treasury and demand gold for it.

Inside the U.S., the Treasury's buying price (\$35 an ounce) is the only price for gold. There is no black market, because no one can see any chance of profiting, now or later, by paying more. Even if the Treasury should someday increase its buying price, illegal holders of gold could not cash in because they would have to explain their ownership when they tried to turn their metal in

for dollars.

• Abroad Situation Differs—Elsewhere in the world, it is a different story. All countries that joined the International Monetary Fund declared an exchange value for their currencies in terms of gold. But many of them are in such a financial hole that it is a wide open question whether they will be able to maintain the values, even with the Fund's help.

In these countries, a man who bought gold now might be able to turn it in later for a far larger amount of currency, especially if the controls on gold holding are loose. This is where the black

markets gather in their customers. • Flourishes in Far East-The biggest traffic in gold lately has been in the Orient, traditionally an area that likes its money in solid metal. One of the most flourishing black markets is re-ported to be on the island of Macao, a Portuguese colony just off the coast of China. In India, prices have run as high as \$92 an ounce at the official rupee exchange rate. The Indian government is now threatening "strong" but unspecified measures against the maritime colonies, which apparently are winking at illegal gold imports.

In the Middle East, another hardmoney area, prices are said to run from \$50 to \$75 an ounce. In European countries, the premiums depend on how hard pressed the government seems to

 Exaggerated Picture—In most of these sales, the buyers pay local currency for gold. The supposed dollar value per ounce represents the selling price converted to dollars at the official rate of exchange. This gives an exaggerated picture of what black market gold is

bringing in terms of dollars.

One result of the reports of fantastic prices for black market gold was to start the rumor that the U.S. Treasury was going to raise its buying price. Speculators in the stocks of gold mining companies happily embraced the story and passed it on enthusiastically. The result has been a striking rise in the common share values of gold mines.

· Price Won't Be Raised-Actually, there isn't a chance in the world that the Treasury will raise its buying price. The dollar is under no pressure at all. And the Treasury, with its \$21.5-billion gold pile, is sitting pretty as far as reserves are concerned. If gold sells for more than \$35 U.S. in foreign black markets, the explanation is the scarcity of free gold abroad, not a weakness of the dollar.

The only possible advantage of an increase in the official gold price would be that it would enable the rest of the world to buy more American goods with the gold they now have. But the inflationary effects of the change would can-

cel out most of this gain.

• Opposite Direction—As far as the gold mining companies are concerned, they can comfort themselves with the reflection that their fortunes always move in the opposite direction from the rest of the economy. The price of their product is fixed in good times and bad. But in prosperity other prices rise and costs eat into their margin. In depression other prices and costs drop. Then the gold mines get their innings.

Prices Climb.on Medium Grades of Southern Pine

Through a haze of uncertainties east ern builders thought they could glimpse better supplies of lumber. But this week the haze parted long enough to disclose only one clear fact: Prices of medium grades of southern pine had turned upwards again. Southern lumber producers were asking \$65 to \$68 a thousand b. ft. for No. 2 yellow pine at the mill. The increase averaged out to some \$10 more than the June price.

Retail prices had quickly followed upward. In Baltimore, dealers asked

from \$72.50 to \$80.00 for the No. 1 board.

· Spring Price Break-The upswing in the lower grades came after a gener price break in the spring. At that tim many fly-by-night mills that had been riding the crest of the boom folded in With these mills out of the pictu supply dropped. To make the situation more acute, summer rains hampere cutting. Hence when demand suddenly firmed in June, prices nosed upwar

To some dealers, reversal of the downtrend came as a surprise. The had expected prices on the media grades to go even lower. Most lumber men now think the market will remain buoyant throughout the summer. Ever so they expect buyer resistance to fur

ther increases.

· Hardwoods Not Affected-Meanwhile higher grades of lumber were little affected by the erratic movements of the lower grades. Cypress and hardwoo remain scarce. And prices on the upp grades remained firm-at levels w above final OPA prices. Retail prices kiln-dried oak flooring ranged from \$13 to \$200 per thousand b. ft. for victor grades.

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At the opposite end of the scal prices on common (lowest) grades pine were still below March-April level

SAFETY COMES HIGH

Increasing costs of airline safety and being underscored by recommendation of the special presidential Air Safet Board. Virtually every suggested chang in existing safety requirements will book already soaring airline costs. many; the

Among the major recommendation Installation of terrain-clearance ind available; they cost from \$200 to \$500 Cold E installed, for each plane cators in all transport planes by Jan. 1

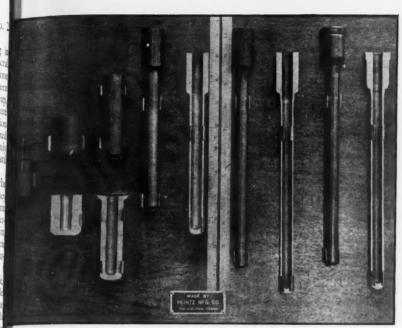
· Revision of transport safety requin ments for calculating maximum taked weights. These will reduce gross load by from 3,000 lb. to 4,000 lb. (15 to 2 passengers). The payload cut will be even greater during the peak summer traffic season, because high temper tures cut aircraft performance on the critical takeoff run.

• Restrictions on four-engine trans port operations on runways of 4.00 ft. or less. Only alternative to these restrictions is an extensive runway lengthening program; about 15% of all runways now certified for four-engine operations are 4,000 ft. or less.

Other board recommendations now in the mill will call for addition of a third crewman, probably a flight engineer, to all four-engine transports. This third man is now carried only on over seas operations. More rigid fire-protection requirements are also in prospect



LUMBER STACKS are high in some yards-but prices on lower grade pine are higher.



FIVE STEPS, Heintz, using a cold extrusion process based on German technique, insforms a small piece of bar stock (left) into a 10-in. finished product.

New Steel Forming Technique

Cold extrusion, German development, is being perfected by Heintz Mfg. Co. Cost savings seen when process is ready for commercial use. Firm holds unique place in metalworking field.

The Germans led the world in the evelopment of synthetic rubber; but U.S. engineers built on this foundation gigantic, complex industry. The same as true of coal chemicals: They were incovered in the laboratories of Germany; the U.S. improved and expanded the German processes into new fields and vast new markets.

Cold Extrusion—The same pattern is ow being followed in still another field. In the thirties, the Germans discovered new technique for working steel—cold atrusion. This week, in a laboratory in North Philadelphia run by Heintz Mfg. 10., engineers are at work trying to peract the process.

So far, the process is still experimend. But the day is not far off when will be ready for commercial use. At that time, all industry will be informed of Heintz's work.

The progress it has made in cold atrusion alone would be enough to win leintz an outstanding position in the metalworking industry. But it is simply nother in a series of achievements that are been made by the 25-year-old metal-stamping and -fabricating firm.

Cloak and Dagger—One of its most damatic chapters is still largely unrecaled: Heintz's "cloak and dagger" aclyities. Just before and during World Var II, Heintz obtained from under the German's noses two highly important developments:

(1) The plans for the famed Hispano 20-mm. aircraft and antiaircraft cannon. The U.S. at that time needed such a gun desperately.

(2) An early production model of the Nazi's versatile "Jerrycan," the ingenious container for transporting liquids. Every soldier was familiar with the Jerrycan; probably none knew we "appropriated" it from the Germans, who spent five years developing it.

• Top Secret—Heintz's work on cold extrusion of steel began shortly after V-E Day. A Heintz engineer, serving on one of the Allied teams ferreting out German technical secrets, heard of the process. It had been under development since 1935, was considered by the German War Board one of its top secrets.

After months of investigation, the engineer reported: "The fact that the Germans were able to make cold steel flow by means of pressure in the same manner that we have extruded tin, lead, copper, brass, aluminum, etc., opens up vast possibilities for making many different end products at greatly reduced cost."

Cold extrusion, he found, was so accurate that it could often eliminate the need for machining a part. And machining is costly, time-consuming, and wasteful of metal. So, under government auspices, Heintz immediately began an intensive study of steel extrusion.

• How It Works—As developed by the Germans, cold extrusion is done with mild, low-carbon steel. The material is formed by pressure of a punch in an open die; a shoulder on the punch forces the steel through the die opening.

The German's big discovery was a method of lubricating the steel so it would flow through the die. This was done by a variation of the well-known, widely used bonderizing process, which chemically transforms the surface of the steel into an insoluble phosphate of iron. As commercially used, this velvet-like surface affords excellent adhesion for paints, prevents the spread of rust where the paint is scratched through to the base metal.

The Germans found that phosphatecoated steel would hold the lubricant so that it formed a film between steel and die. Among lubricants used were rapeseed oil, tallow, fatty soap, and palm oil

• Lower Pressure—Pressures up to 230,-000 lb. per sq. in. were used by the Germans in extruding such items as oleo struts for airplane shock absorbers, steel cartridge cases, pipe, wire. Heintz has succeeded in cutting required pressures to as low as 30,000 lb. per sq. in.

The company hopes to extend the applications—perhaps even so far as to make pistons for engines. As for accuracy, it has already turned out precision pieces accurate to .001 in.

• Aluminum Brazing—Another recent Heintz development is a new means of brazing aluminum sheets together. It is in full-scale use in production of evaporators for Philco home freezers. Before Heintz stepped into the picture, only small aluminum pieces could be brazed successfully. Brazing 6 or 8 sq. ft. of surface area so the finished piece would withstand pressures of 500 lb. per sq. in. was another matter.

The evaporator Heintz makes consists of two flat pieces of metal, each containing a network of shallow channels. These pieces are brazed together to form the inner and outer walls of the evaporator. The refrigerating action is obtained by permitting a coolant to expand from a liquid to a gas inside these channels.

On one side of one aluminum sheet is a layer of aluminum alloy. This alloy has a slightly lower melting point than the rest of the sheet. The two sheets are placed together with the alloy face on the inner side. Trick then is to heat the assembly to the point where the alloy will melt and fuse, but not hot enough to melt the sheets themselves.

• Problems—Three problems had to be solved:

(1) Aluminum reflects heat, making it difficult to achieve the desired tem-



DR. LUDWIG SCHUSTER (left), German scientist now at Heintz, exhibits German extrusions to Major Weber DeVore, manager of Heintz's marine and railroad division. The long tube on the desk was extruded from a small one, like DeVore holds, in a single operation,

perature for brazing in the shortest time
(2) Heating had to be uniform over the entire area.

(3) The sheets had to be kept under pressure and uniform contact during the fusing period to assure a tight, even bond.

Heintz technicians overcame these problems by transferring the heat to the sheets through a metal die. This took advantage of the high heat-conductivity of the aluminum, yet overcame its tendency to reflect heat.

But the metal die and the sheets expanded at different rates when heated. If die and sheet fit when cold, they wouldn't fit when hot. So the die had to be designed so it would just fit the sheets at the fusing temperature of the alloy-1,080F to 1,140F.

• The Man Responsible—The story of Heintz's growth to a position of high prestige in the metalworking field really began in 1932. That was the year William J. Meinel (cover) became president and general manager.

Before that time Heintz had served principally the automotive industry, making various stampings for Studebaker, Willys-Overland, and others. But this business was highly seasonal. So Meinel resolved to diversify.

But the company first had to be worked out of its shaky financial position—the result of such depression-fostered events as the failure of at least one of its big customers, Willys-Overland. Meinel did the job so adroitly that one interested bystander, Bethlehem Steel Co., was thoroughly impressed. One result: Charles Grace, son of Bethlehem's president, bought controlling interest in Heintz. That was in

1937. Grace is now vice-president and treasurer; his younger brother, Eugene, Jr., has also joined the firm.

• War Preparation—During a trip to England that same year, Meinel became convinced that war was inevitable. He immediately started studying ways that Heintz could fit into the war production program when and as it came.

One outstanding development of this period was Heintz's technique for making gun barrels from bar stock. This supplanted the traditional—and slower—forging method, reduced costs for rough machine-gun barrels to 25% of their former level.

• Smugglers—Heintz's "cloak and dagger" operations are still largely shrouded



CHARLES GRACE: He recognized Heintz Mfg. Co. as a good investment.

in official secrecy. But it is known the company representatives were responsible for locating engineers of the Hipano-Suiza company right under the noses of Axis agents. They were brought to this country with the blueprints their gun, helped put the weapon in speedy production. This saved the U.S. months of precious time.

The Jerrycan was made available this country because of the friendship between Meinel and a German industrialist. It was spirited out of German anderneath the chassis of an automobile Not until that auto had been drive to India, shipped to this country, an placed under lock and key in a Philadelphia garage, was the Jerrycan amoved from its hiding place. Again Meinel's work saved months in making this unique container available to the U.S. armed forces.

• Broad Field—The Heintz company current operations cover a wide field of metal fabrication work. Its product include stainless steel beer barrels, one third the weight of wooden ones stamped parts for various automobiles cabs for diesel locomotives; jet propulsion components; washing machine and radio sections.

Its customers include such companies as General Motors; General Electric Sears, Roebuck; Philco; Chrysler; International Harvester; Mack Truck. Employment now averages 2,000 agains 900 in prewar days, 3,000 at the wastime peak. Sales are running close to \$20 million a year, four times the best prewar level.

• Careful Expansion—Expansion plant are now in the making. But Heintz, under Meinel, will grow only as fast a

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The order's in. And, with swift strokes, the waitress records an entire transaction.

In your own business, you can bring a similar "one-writing" simplicity to any accounting task by means of the almost unbelievably simple Comptometer Peg-Board Plan.

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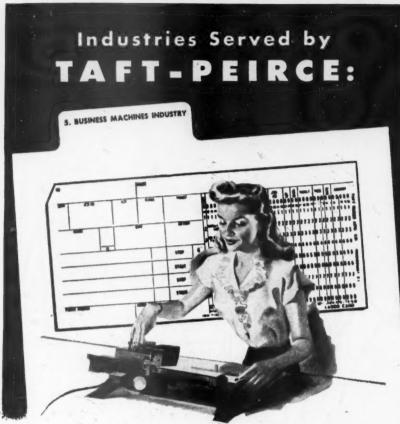
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In 1896, an original thinker came to Taft-Peirce with the novel idea that the way to pull cost-accounting out of the hole was to punch holes in a lot of cards.

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long-established and successful enginecting and employee-relations policies will permit.

To this end, Heintz is split into Il divisions, each headed by a general manager with full autonomy.

"We want every one of our managers to know every one of his workers, and we want him to talk with his workers daily, if possible," says Meinel. "That's the way we get tough engineering problems solved at Heintz; that's the way we keep each worker impressed that he is a vital cog in our company. That policy pays dividends—to stockholders, and to employees in the form of profit sharing bonuses."

STRINGS ON WAR PLANTS

Congress finessed consideration of a long-range program for an industrial reserve of standby plants in the last days of its session. A bill supported by most industrial groups will come up for further study next year.

But Congress did pass an interim bill aimed at keeping existing surplus plants



SO COOL

"We used a blanket every night." The vacationer's timeworn report has caused many a city swelterer to cringe, boosted his under-the-collar temperature. But, John Lefebvre who works in the hardening room of General Ice Cream Corp.'s Bridgeport plant gives a cold reception to even the most irritating saga. Lefebvre spends most of his time at temperatures as low as—20F, wrapped, to ward that daytime chill, in an electrically heated blanket.



"How Do I Know What I Want? The Globe Doesn't Get Here Till Two This Afternoon!"

Storming into a North Woods General Store, in Eskimo Run, New Brunswick, Mrs. S. puts all the blame on The Boston Globe—and she's right! Mrs. S. is where she is because she reads the advertising in The Globe's travel section. And she is in her present state of indecision because she reads—and relies on—The Globe. Like so many intelligent Bostonians she makes it a daily habit to read The Globe—editorial columns, special features and advertising—so now, she is lost without Boston's best read newspaper.

Because advertisers know that Mrs. S .-

and hundreds of thousands of responsive Globe readers like her—have the money to spend on luxury cruises and costly vacations, they placed more Hotel and Resort advertising in The Boston Globe during the first six months of 1947 than in any other New England newspaper.

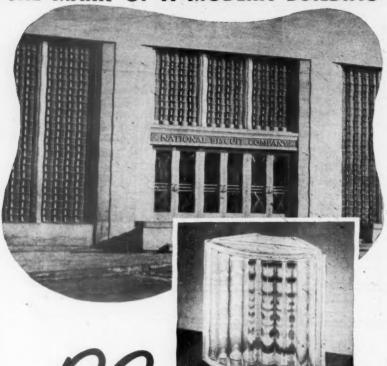
Obviously there's a lesson here for every advertiser with a product or service on sale in this fabulous, TWO-BILLION DOLLAR Greater Boston Market. Bostonians read and rely on *The Boston Globe*, are influenced by its editorial content, and have the wherewithal to make any advertiser happy.

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Matienal Representatives: J. B. Woodward, Inc., New York, San Francisco, Los Angeles Osborn, Scolaro, Meeker & Co., Chicago, Detroit

THE MARK OF A MODERN BUILDING



GLASS BLOCKS

PC Glass Blocks are widely used in modern buildings largely for one reason: they do so many things so well.

They add to the appearance of any structure. They transmit daylight generously into building interiors, and can even direct the daylight to where it is most needed.

Their excellent insulating properties mean greatly reduced heat loss through light areas, savings in heating and air-conditioning costs. They prevent infiltration of dust and dirt, deaden outside sound, clean easily. They can be readily combined with transparent glass sash construction. And they harmonize perfectly with any architectural style.

PC Glass Blocks are the mark of a modern building. We invite you to send the coupon for complete information on PC Glass Blocks. Pittsburgh Corning Corporation also makes PC Foamglas Insulation.

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and machinery from being dissipate through War Assets Administration sale. Much material which the almost services wanted to have in standby to being sold, in some cases as junk. The services lacked legal authority or fund to hang on to it.

Without setting up any formal a dustrial reserve, the present legislatu authorizes the services to:

(1) Take over from RFC, DPC, WAA any plants or machinery whis would be of use in the event of a future war.

(2) Rent out, on leases of five year or more, any plants or equipment which they have no present need. The gets the Army out from under the buden of maintaining such facilities.

(3) Impose conditions on WAA apposal which will insure availability future military use. To protect WA the law specifies that, if disposal proimpossible under these conditions, imilitary must either modify the additions or take the property back for WAA and dispose of it themselves.

Under the powers granted by the new legislation, the Army and Naplan to put strings on some 77 industrial plants and about 92,000 machine tools.

BUYING POLICY UNSETTLED

Manufacturers who do business we the armed services would like to know that long-term procurement policy we be. Right now it appears that the won't know for months—possibly a for a year.

The reason: Congress went how without taking any action on legition to spell out peacetime milit procurement procedures. It will consupagain when Congress reconvenes January. Meanwhile, present produres continue under war powers.

Merger of the armed services whave little immediate effect—except whaps for sellers dealing with the forces. The merger law set up the arm as an independent body; aircra procurement is now a matter for force decision rather than, as formed subject to the Under Secretary of Warner and the services where the secretary of Warner and the se

Over the long haul, the Secretary of Defense will continue—and may accerate—the program of joint procurement of items common to the services. It program has been carried on by a Army & Navy Munitions Board.

Over the very long range, the not civilian National Security Resours Board, which reports directly to the President and is independent of a services, may have some influence procurement policy. Principal role this board is to plan for the civilian-WPB-side of organizing a war comy. It will set policy on such matter as stockpiling and relocation of plan

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Shake well before using!

That's right! Shake the car. It's the easiest way to empty it.

Ordinarily, unloading your hopper cars is quite a task. And an expensive one. too.

Material that has traveled many miles in hopper cars tends to settle down...to pack tightly. It takes a lot of time to loosen it. Often requires as many as six men to empty one car, always at risk to life and limb.

But the new time- and labor-saving way to unload cars is to *shake* them empty with a Robins Car Shakeout.

Just lower this portable Shakeout onto your car. Then press a button and the Shakeout does the rest. It loosens the packed or frozen material ... lets it flow freely and quickly through the hopper doors.

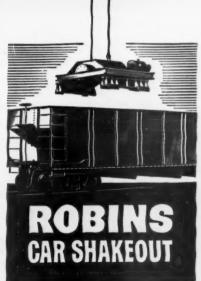
Fifty- or seventy-ton cars are emptied "broom-clean" in as little as 90 seconds. There is no damage to cars. The operator works in complete safety. Hours of labor are saved. Demurrage charges are practically eliminated!

Actual field operations by hundreds of users prove that this new method of unloading hopper cars is as much as twelve times faster than manual unloading.

Write Robins today for details.



A note on your company letterhead will bring you this new booklet about the Robins Car Shakeout. Tells how this new concept in car unloading saves time, manpower and money.



ROBINS CONVEYORS DIVISION, Hewitt-Robins Incorporated, Passaic, N. J.



Labor



likes to work here ... and

Management



does, too!

Why is industry migrating to Santa Clara County? Is it labor—raw materials—location? Perhaps... but deep down, there's an even more basic reason!

Labor and management are human beings . . . and there's plenty of enjoyable living in Santa Clara County.

It's pleasant to work where summers are mild and winters are free from snow and sleet.

It's nice to own a home and have a lawn and garden with rose vines twining over the house. Or perhaps a small farm with chickens, fruit trees, even a cow!

In the past many people considered California as the place to live after their stake was made. Now, industry is producing in Santa Clara County (out-producing other sections, too) and enjoying life while making that stake.

Sure . . . Santa Clara County can top most areas in the basic needs of industry. But for the sheer enjoyment of living, here's an area that can't be approached.

WRITE FOR THIS FREE BOOK

"The New Pacific Coast" is a 36 page book about the West and Santa Clara County. It's worth owning. Free, too . . . but write on your business letterhead.



DEPT. W, SAN JOSE CHAMBER OF COMMERCE, SAN JOSE 23, CALIFORNIA



Not Enough Fibers

There's plenty of manila hemp (for rope) but the supply of sisal and henequen (for twine) is far behind estimated demand.

The cordage fibers—manila hemp, sisal, and henequen—are on their own again. Manufacturers of wrapping twine, upholstery padding, reinforced paper, and plastics are back in the market after a war-long drought of hard-fiber supplies brought on by government end-use restrictions. Binder and baler twine, favored by allocation orders because they're needed for grain, hay, and straw production, are no longer under the government's protective umbrella.

While the outlook isn't completely clear, industry figures reveal that supplies for the next 12 months are about one-third lower than total estimated unrestricted demand. If these estimates are correct, there is little chance that prices—already two to four times what



BITING BACK

These capsules are bitter pills for citrus grove pests. Each one contains ten Australian lady-birds artificially raised at the Los Angeles County Insectary. No ladies in their table manners, the beetles like nothing better than to gorge themselves on a blueplate of mealybugs—the cause of truit drop and fungus. The capsules are distributed free to farmers, will be used to start beetle colonies in the groves.

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Can you answer these questions about

HIGH BLOOD PRESSURE?

Q. What is high blood pressure?

A.

High blood pressure, or hypertension, is a condition in which the pressure of the blood against the walls of the arteries and their smaller branches shows a persisting and large increase above normal. A temporary rise in pressure, such as may

result from physical or emotional strain, is a perfectly normal reaction, and is NOT high blood pressure. However, if such rises occur frequently and are excessive, they may indicate a tendency toward hypertension in later years.

Q. What are the causes of hypertension?

A.

Sometimes high blood pressure is associated with kidney ailments, local infections, or glandular disturbance, but the cause in most cases is unknown. It is known that hypertension occurs most fre-

quently among those who are middle-aged or older, those who have a family history of hypertension, and those who are overweight.

Q. How does hypertension affect your health?



Persistent high blood pressure makes your heart work harder and nearly always results in enlargement of the heart muscle. The arteries are usually affected, and there may be damage to kidneys, eyes, the blood vessels of the brain, and other organs. Fortunately, if discovered early, hypertension can often be controlled.

Q. How can you tell if your blood pressure is too high?



You can't, for high blood pressure often has no symptoms. But if you have periodic physical examinations your physician will check your blood pressure regularly. His guidance can probably help

you keep your blood pressure down, or, if it should go above normal and stay there, he may be able to start corrective measures at once, before serious damage has been done.

Real hope for those with high blood pressure

Thanks to modern medical science, people with high blood pressure today can often avoid serious complications, and enjoy a long and happy life . . . especially if the condition is discovered in its early stages.

In many cases treatment such as diets, rest, elimination of infections, reduction of weight at least to normal, and special drugs may be necessary. Surgery has been used effectively in some instances, and psychotherapy has

proved helpful at times.

Medical science is constantly increasing its knowledge of high blood pressure. Aiding in this work is the Life Insurance Medical Research Fund, supported by 150 Life Insurance Companies, which makes grants for special research in diseases related to the heart.

To learn more about this subject, send for Metropolitan's free pamphlet, 87-S, "Blood Pressure — Everybody Has It."

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Insurance Company

Frederick H. Echer,
CHATRIMAN OF THE BOARD
Leroy A. Lincola, PRESIDENT
I MADISON AVERUE, NEW YORK 10, N.Y.

TO EMPLOYERS: Your employees will benefit from understanding these important facts about high blood pressure. Metropolitan will gladly send you enlarged copies of this advertisement — suitable for use en your bulletin boards.

TO VETERANS-IF YOU HAVE NATIONAL SERVICE LIFE INSURANCE-KEEP IT!



For hunting big game or hunting industrial sites... it pays to have a guide

If you are hunting an industrial site, why handicap yourself by sleuthing around on your own, getting your information second-hand?

The Milwaukee Road's Industrial Development Department can serve businessmen in an expert and confidential capacity. Its function is to develop traffic by locating stable industries on the railroad.

To do this job it employs engi-

neers and analysts who can give accurate, detailed information about markets, labor conditions, taxes, housing, raw materials, shipping and power facilities and other factors. They have



plats of hundreds of manufacturing districts and are familiar with opportunities throughout the twelve industrially expanding midwestern and northwestern states served by The Milwaukee Road.

The leaflet, "How to Find a Home for Your Business," is a helpful outline of the services we offer. For your copy, write J. C. Ellington, Industrial Commissioner, The Milwaukee Road, 302B Union Station, Chicago 6, Ill.



THE MILWAUKEE ROAD

THE FRIENDLY RAILROAD OF THE FRIENDLY WEST

they were prewar-will ease in the near future.

• Import Commodity—Reason for this prospect is that the U.S. is wholly dependent on imports for its hard fibers. The Philippines and Central America are the major sources of abaca (manila hemp, used for rope). Mexico, Haiti, Central America, and Africa yield several varieties of agave (most important sisal and henequen, used for twine).

One important producer of sisal, particularly of the grades desired for wrapping twine, is the Netherlands East Indies. But Java sisal, like Java rubber, has been smuggled out only in small quantities; until the political situation settles, the East Indies are written off as a source of material for U.S. twine makers.

• Plenty of Manila—Only fiber in good supply is abaca from the Philippines, Domestic rope manufacturers are getting enough manila hemp so that War Assets Administration on July 15 could sell for export 8½ million pounds of less-desirable sisal and henequen rope.

Incoming supplies of manila hemp, besides supporting U.S. rope production, will also be used by twine manufacturers to extend the short supply of sisal and henequen. But it can't go far in filling the estimated 200-million-pound gap between supply and demand.

Here's how the estimates balance up (figures in millions of pounds):

Demand	
Rope	125
Binder and baler twine	250
Wrapping twine	65
Reinforced paper	25
Upholstery padding	40
Plastics	10
Miscellaneous	10
Inventory replacement	75
Total	600
Supply	
Abaca:	
Philippines	144
Central America	40
Agave:	
Mexico	124
Portuguese Africa	44
Haiti	30
Miscellaneous	5
T. 1.1	207

• Market Restricted—Up until last October, RFC was the sole U. S. buyer of all cordage fibers. Imports were channeled to manufacturers under CPA allocations. But at that time RFC's contract with the Philippine government ended, at Philippine request. Price of abaca jumped from 16¢ a lb. under the government's contract to around 20¢ on the open market.

Even now, importers are able to buy only from the Philippines and Portuguese Africa. They could buy—if they could get the stuff—from British Africa, the biggest sisal-producing area in the



NEW VESSEL DIVISION HEADQUARTERS. Paint is scarcely dry on new air-conditioned building (above, center) which puts administra-

tion, sales, engineering, drafting, production control, and inspection immediately adjacent to the A.O. Smith vessel shops, Milwaukee.



TOO BIG FOR THROUGH RAIL SHIPMENT, four 16'x 90'coke drums were moved to location on Lake Michigan's biggest barges, two vessels to a barge. To get the vessels from A.O. Smith shops to the Lake Shore dock, special arrangements had to be made on five miles of railway track.

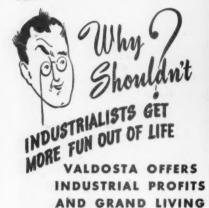


THESE SULFUR CRACKS are dangerous in welded heavy sections. A. O. Smith metallurgists have figured out a way to avoid them by controlling the residual sulfur in welding wire.



ORCHIDS to the production-control crew, headed by a twenty-five-year A. O. Smith man, who were responsible for keeping to a schedule the simultaneous production of four large 16 x 90 alloy-lined coke drums, a feat few shops in the world could accomplish.





OU'RE probably working and worrying a lot and living only a little. Why not bring your industry to Valdosta which offers real industrial possi-

bilities, plus the hearty pleasures of a region famous for good living and a climate renowned for health?

CHEMICAL industries based on naval stores and wood extractives; wood working industries and all related branches, food and tobacco processors, light metal industries, soap and paint makers and many others will find especial opportunities here.

CONSTRUCTION and maintenance costs are low, the year yields more work days, labor is plentiful, easily trained and cooperative, taxes are reasonable, and location and good transportation place you close to unlimited raw materials and markets.

WHAT'S more ... it's FUN to live in Valdosta ... better for you, better for your family. Come —profit and enjoy life in Valdosta.

Sound facts and figures will be supplied confidentially on request outlining your interests. Valdosta cooperates from the start.

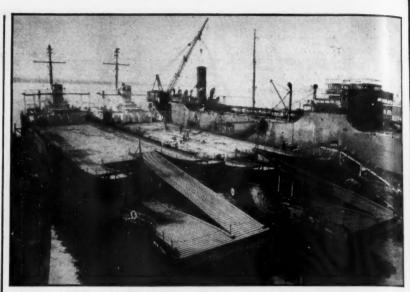
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B. C. Smith, Secretary

Believers in Valdosta

Chamber of Commerce Bldg., Valdosta, Georgia



BOWS ALTERED for rapid loading, ungainly LST's ready to shove off on peacetime hauls.

world. But the British themselves take the entire output (330 million pounds a year) for allocation to Europe and Empire countries. Importers also are free to buy from the East Indies, but the chaotic political situation there blocks both production and trade.

For the next six months the government, through RFC, will continue to monopolize all other cordage sources under purchase contracts.

under purchase contracts.

• RFC Returns to Bids—With the end of controls July 15, RFC now has to sell its cordage supplies to the highest bidder. However, to protect mills that have been getting fiber under allocations, RFC will sell under the allocation pattern for a few weeks. By mid-August it expects to swing over to competitive bids without disrupting production of needed binder and baler twines.

Long-term outlook for the hard fibers points to a balancing off of prices. But it seems unlikely that they will drop back to the prewar figures of 5¢ to 6¢ a lb. for agave and 10¢ to 12¢ for abaca. The price relationship between the two is likely to be maintained, but at a much higher level. Easing of the demand for manila hemp, however, could help to soften ultrahigh price demands of exporters of the other fibers.

• Exporters Turn to Processing—There's one long-term development, however, that isn't likely to subside. That is the drive by fiber-exporting countries to become twine and rope exporters instead. Mexico has already expanded its rope and twine mills; other countries would like to do likewise. Mexico at present is exporting manufactured cordage to France and other European countries to the limit of its productive capacity. When this demand tapers off, it will undoubtedly take steps to ship manufactured cordage to the U.S., too.

LST's in Mufti

Converted landing craft to haul trailers on Hudson from New York to Albany. Owners predict big savings to truckers.

Pacific veterans stationed at West Point will soon get a view of traffic on the Hudson River that should remind them of combat days. Next week Trailerships, Inc., New York, plans to inaugurate a new service on the historic waterway with two converted LST's (landing ship, tanks). They will carry truck trailers between New York and Albany.

Shipping trailers via the river is expected to save truckers money in time, pier expenses, gasoline costs, insurance, wear and tear on equipment, and driver wages. The two ex-combat vessels (renamed the Albany and New York), with crews of 20, will leave from opposite terminals the same day.

TRUCK

• Special Equipment—Truck trailers will be hauled aboard and parked by special tractors. They will be carried on two decks whose combined linear footage of 1,500 ft. will accommodate 50 30-ft. trailers. Charges will be \$1.35 per linear ft. of trailer. The company claims it can save an operator \$600 a year per large trailer.

Included in the savings is the chance for trailers to carry a full pay load. State highway restrictions prevent a 25-ton trailer from hauling more than 15 tons over the roads. On Trailerships the trucks can load to the limit without extra cost. A tractor unit of the trucker will deliver the trailer to the dock at one terminal; another tractor unit will pick it up at the end of the run. (Not





TRUCKS—The most complete line built . . . 21 basic models that specialize into more than 1,000 different types of trucks.



FARM EQUIPMENT—Farm mechanization, including the new Farmall Cub tractor and implements for small farms. Farmall M Illustrated.

What the International Harvester symbol means:

Products to save labor, increase production and provide better living.

A business begun 116 years ago with an important service to mankind—the invention of the mechanical reaper by Cyrus Hall McCormick.

A company operated fairly in the interest of customers, employes and stockholders.

Twenty-one plants to manufacture International Harvester farm tractors, farm machines, motor trucks, crawler tractors, industrial tractors, gasoline engines, diesel engines and home and farm refrigeration.

Two hundred and twelve branches and company-owned outlets, and more than 9,000 dealers, to distribute International Harvester products and to supply after-sale service.

Excellence of product now, with greater excellence always in course of preparation.

INTERNATIONAL HARVESTER COMPANY 180 North Michigan Ave., Chicago 1, Illinois



INDUSTRIAL POWER — Crawler tractors, wheel tractors and engines of proved performance and operating economy.



REFRIGERATION—Beautifully designed, efficient... bringing new leisure and convenience to the home-makers of America.

Tune in James Melton on "Harvest of Stars" every Sunday! NBC Network.

3 Ways to Profit with NEOPRENE

The Rubber made by Du Pont



DEVELOP A SUCCESSFUL **NEW PRODUCT**

ole: Automatic correction of minor mis-alignment between tool and work is made possible by this new tool-holder... designed to take advantage of neoprene's unique properties as a tough, resilient material. Here neoprene gives long life because it resists deterioration from constant flexing in contact with oils, greases and cutting compounds.

By combining skill and imagination with neoprene, engineers are develop-ing many new products for home and

IMPROVE A PRODUCT TO WIDEN MARKET

Example: New sales feature for a wellknown marine motor is this water-pump impeller of tough, durable neoprene-which is not abraded or damaged by sand or silt in the cooling water. The neoprene impeller widens considerably the market for the motor.

Many alert manufacturers have made their markets wider, more diversified-and therefore more stable -by using neoprene products.



REDUCE MAINTENANCE COSTS

Example: High replacement costs of valves for handling corrosive and abrasive fluids are reduced when valves are lined with neoprene. Neoprene resists deterioration from most chemicals; withstands severe abrasion. Smooth, seamless neoprene lining assures unrestricted flow . . . bonds permanently to valve. Lining extended over flange eliminates the need for separate gaskets.

The properties of neoprene mean longer life per dollar—saving in replacement costs, maintenance labor and shutdown time. Most industrial rubber goods will give more service when made of

SEND FOR YOUR FREE COPY OF THE NEOPRENE NOTEBOOK

Write for your free subscription to The Neoprene Notebook. Full of interesting stories about new or unusual applications of neoprene, it may give you valuable ideas. E.I. du Pont de Nemours & Co. (Inc.), Rubber Chemicals Division X8, Wilmington 98. Delaware.

HERE'S WHY DU PONT NEOPRENE DOES SO MANY JOBS SO WELL!

- * High tensile strength, resilience, low permanent distortion.
- Tough, durable, resists abrasion and cutting.
- * Superior resistance to sunlight, aging, ozone, heat.
- Resistance to deterioration by oils, solvents, chemicals, acids.
- * Superior air-retention, low permeability to gases and fluids.
- * Special compositions are flame-retarding, static-conducting, flexible at low temperatures.

TOUGH, DURABLE NEOPRENE

The Rubber made by Du Pont



BETTER THINGS FOR BETTER LIVING ... THROUGH CHEMISTRY

the least to applaud the new service will be the motorists: It promises to remove many a lumbering behemoth from the Albany Post Road.)

· Conversion-Trailerships bought the surplus LST's for \$75,000 each. They were converted for peacetime use by Sun Shipbuilding & Drydock Co., Chester, Pa., for \$125,000 each. Major structural change was the removal of the letdown ramp in the bow. In its place was put an immovable bow with an incline leading to the upper deck (picture, page 32). Dock ramps dead ahead allow convenient maneuvering of trailers in loading and unloading.

In trial runs from Chester the vessels did better than 12 knots (a speed that would astonish Navy veterans who served aboard them). At this speed they could make the New York-Albany run

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in 10 to 11 hours.

• No Sentiment-Some may imagine that the service is the inspiration of Navy personnel who grew to love their LST's. But they are doomed to disappointment. The shallow-draft craft rolled and wallowed like pigs in a mud bath when they were on high seas; most men who served on them never want to

see one again.

Trailerships was formed by shipping men and engineers who saw a chance for an economical service in the conversions. Chairman of the board is H. F. Alexander, of the engineering firm of Complete Combustion Co. P. A. Rowley is president; J. H. Dick Macy and C. K. Crosby are both vice-president. dents and treasurers. The latter, who was once manager of the late, romantic Hudson River Night Line, is operating executive for Trailerships.

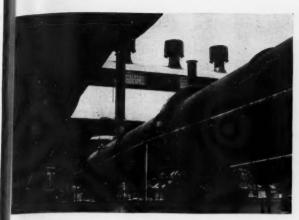
• Similar Service-Alexander has a similar service between Los Angeles and San Francisco in the blueprint stage. Since this is a deep-sea run, sturdier and more expensive ships are needed.

Trailerships is an extension of the idea pioneered by Seatrain service. This company's ships carry railroad cars between New York and New Orleans. With its direct ship-shore rail connection, it saves on the heavy dockside costs which accompany the loading and unloading of cars.

• Other Peacetime Conversions-Similar peacetime jobs have been found for other combat landing craft. The Buccaneer Lines, Inc., Jacksonville, Fla., has announced that it will run converted LCI's in a banana and general cargo business from Florida ports to the West Indies and Central America. The Gay Head (nee LSM-landing ship, medium -286) ferries passengers and cars in a New Bedford-Nantucket-Martha's Vinevard run.

Other landing craft also are promised careers in foreign parts. Executives of the American-South African Line say they'll use such vessels to bridge an im-

34

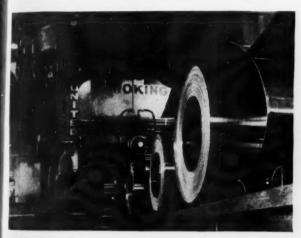


was

2. It isn't alumina yet—but this view in the Baton Rouge plant shows the final step in processing. These giant rotary kilns operate at 1800 degrees E, and cook the alumina hydrate into snow-white alumina powder. This alumina is then loaded into box cars and goes by rail to Permanente Metals' reduction plants at Spokane and Tacoma, Washington, where it is converted into basic aluminum.



3. Spokane, Washington, is the home of the reduction plant of The Permanente Metals Corporation, where alumina is made into basic aluminum. Another reduction plant, at Tacoma, increases the supply needed to keep the Spokane rolling mill operating at capacity. Reduction process requires tremendous power. Metal is cast into pure aluminum pigs, then sent to rolling mills for remelting and alloying.



4. The rolling mill at Spokane is capable of producing more than 288 million pounds of aluminum yearly. Two-ton ingots of alloyed aluminum are hot-rolled into long strips. Cut into sheets, the metal is cold-rolled to proper specifications (above). Careful handling and constant testing assure outstanding quality. This plant comprises 53 acres. Plate, sheet and strip are loaded directly into cars for shipping.



5. Here's why Kaiser Aluminum is in demand: Permanente Metals' representatives really give service. Delivery promises are kept. Quality exceeds specifications. Top technical brains are always at your service, may cut your costs through sound advice. Though Permanente Metals itself is but one year old, its administrators, engineers and operators have had years of experience in the aluminum industry.

Ready to serve you-today...

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World's Largest Quick-freezer Uses



as Seen From the Air



Six of the Nine Big Frick 4-Cyl. Ammonia Compressors



Seabrook Farms-Deerfield Packing Corp. are break-The Great Plant at Bridgeton, N.J., ing all records for quick-freezing foods at their gigantic plant near Bridgeton, N. J. They are processing as much as a million pounds of vegetables and fruits a day, 85% of which are promptly frozen.

> Their precooling, quick-freezing and cold storage operations are all handled with Frick Refrigeration. Storage capacity is over 50 million pounds. Twelve big Frick ammonia compressors, driven by motors totalling 3825 horsepower, carry the cooling load with dependability.





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Give your employees' morale a 'raise''... get General Electric Water Coolers. Cost approximately 2¢ a day to operate in the average office. For full

information call your General Electric Dealer. General Electric Company, Air Conditioning Department, Section 7868, Bloom field, New Jersey.



- Water Coolers -

portant gap-the lack of small free craft to gather cargoes for big freight which can't navigate shallow bays at rivers. The company will start with so eral small (100 ft.) LCT's a feed for its big ships on the West Africa

Californian Trundles Ou Three-Wheel Car Again

Plans for new automobiles are almo as endless as the aces up the late W.(Fields' sleeve. Back in the swim th week after 20 months of silence w Gary Davis, California automob salesman-inventor. Davis made news the fall of 1945 with plans for a the wheeled, lightweight car (BW-Oct '45,p52). But it never got past t prototype stage.

This time Davis thinks he is a litt

better prepared. In the files of his Beverly Hills office he now has complete sheafs of tooling designs, performan specifications, plant layouts, assembline plans. When he made his fir splash in 1945, he had none.

• Double or Nothing—For this \$35,00 worth of engineering, Davis is indebte to the risk-taking ideas of some 15 engineers, tool men, mockup men, a other southern California specialist They did all the work after hours a double-or-nothing basis: If the succeeds, they collect.

The projected, 60-hp., tubular-stee and-aluminum car has also undergo some changes on the drawing board. still has only three wheels, but it not has a longer wheel base (108 in. 101½ in.), a convertible hard top. How ever, Davis is still hanging on to h projected \$1,000 price (delivered in Lo

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Angeles).
Davis' idea is to subcontract all of his subassemblies. His company will d only the final assembly job. He believe California has enough skilled labor small factories to make all the parts of cept the engines.

• Money Raising-To swing into an in itial production of 50 cars a day, Davi needs to raise \$3 million. (He es mates that total tooling costs for the simplified car will be only \$150,000 Hence the relatively small amount was quired.) Unveiling of his first protetype attracted 30,000 inquiries. The encouraged, he plans to show off hinew car in every major city in the na tion. From interested people Davis then expects to select 48 distributors and several hundred dealers.

With a huge potential market among people who want a full-sized car at a price they can afford, Davis feels he can't miss. There's only one hitch: Observers guess that at best the car cannot be in production in less than 18 months.



Eaton Plays an Important Part

The greatest compliment that can be paid the nation's communications systems is the fact that people expect these services to be perfect. Disasters may level poles, tangle wires, and disrupt delicate equipment, but telephone, telegraph, and radio systems are expected to function with little or no interruption.

An important contribution to this almost unbelievable efficiency and recuperative ability is being made by the thousands of units of mobile equipment which help to maintain and extend these services. The various Eaton Divisions have been privileged to work with practically every manufacturer of motor vehicles and construction equipment in supplying two-speed truck axles, springs, heaters, engine valves, tappets, hydraulic valve lifters, and other vital parts. Eaton research is constantly engaged with the problem of making this mobile equipment even more efficient and dependable.

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Productive Time.. New Oil Well Pump Cuts Cost

Development by Kobe, Inc., does away with derrick saves 25% to 30% in costs. Instead of being suspended from rods, new pump is sent to well bottom, returned by oil pressure

To the general public, towering forests of derricks, with their nodding, horse-head pumps, are the trademark of the working oil field. But in the not too distant future, that trademark may go the way of the wood-burning locomotive.

· No Superstructure-Kobe, Inc., Huntington Park, Calif., a western afailiate of Dresser Industries, has a new type of submerged oil pump. Recently unveiled in the Dominguez field of Los Angeles, the pump requires no elaborate superstructure. Valves and piping can be located in a shallow pit, covered with a

According to Kobe engineers, the new pump has advantages other than the esthetic one of removing ugly derricks from the oil field (BW-Apr.13 '46,p31). They say the device saves money in pumping costs-as much as 25% to 30%. That means that it may become economically feasible to continue pumping low-yield wells. (Such wells are often abandoned now because pumping by conventional methods costs more money than the oil produced returns.)

• Free vs. Fixed-Clarence J. Coberly, president of Kobe and promoter of hydraulic pumping in the oil industry, calls the new device a "free" pump. Both "fixed" (conventional) pumps, and the "free" pump function at the point where oil is found, which is usually many thousands of feet below the surface. But the fixed pump is sus-pended from a string of heavy metal rods as long as the well is deep.

The free pump is suspended from nothing. It is literally free. It can be sent down the well tubing to the oil-bearing sands and returned to the surface at will.

• How It Works-In its simplest form, the pumping system involves a pair of parallel tubes within the well casing. The tubes are joined at the bottom to form a "U." Both legs of the U-tube are filled with crude oil from stock. The pump is incased, with its engine, in a finely machined cylinder about 2 in. in diameter and 10 ft. long. It is inserted into one leg, known as the power tube, and forced to the bottom by stock oil under heavy pressure.

When the pump seats itself at the



KOBE'S OIL PUMP: Pressure shoots down and shoots it up again.

base of the U, the pressure of oil starts it working, as in the conventional hydraulic pump. Production oil from the well is sucked through an opening in the pump and forced upward through the other leg of the U and thence on through pipes into the tanks for

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To bring the pump to ground-level, a workman operates a valve at the surface. The reversed flow of pressure oil forces the pump upward from its seat in the power tube.

With conventional pumping, stationary or portable derricks are indispensable. They provide the elevation that is necessary for pulling out and reinserting the pump at the end of the hanging rods -which are made in lengths of about

• Economy-Here's why Kobe engineers say that the pump is economical to operate:

All pumps break down-either because of mechanical failure or because



An interpretation by the California artist Jim Forman

GODMOTHER TO A MILLION CINDERELLAS

Tantalizing—the idea beckons. Find sketchpads, models, cloth—traps to ensnare the designer's dream. Shape it to fit stubby waists, round tummies...to withstand the stress of sandpiles and washing machines. Create a dress for all the little girls in the land.

The birth of a business—any business—is difficult. What determines success...or failure? Can it be foretold at the start?

The men of Bank of America know that experience, determination, talent have a great deal to do with success. Certainly, Jean Durain had little else to offer when, in 1942, she came to the bank's Santee-Textile branch in Los Angeles for a loan.

Bank of America executives sensed in this energetic young challenger to the competitive "needle trades" a rare combination of abilities. Jean Durain wanted to design and manufacture clothes that would not only please practical parents, but would also delight the little girls who wore them. Bank of America made the loan—and gave Jean Durain her opportunity. Financially strengthened, she went to work. She measured thousands of children, trained assistants, designed cloth, pondered over styles and sizes, patterns and production.

Her painstaking methods got results. Today, four years after that first loan, she is building her third California factory—and completing plans to manufacture Jean Durain originals in every part of the world.

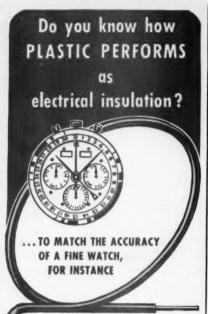
CREDIT WITH VISION to see the opportunity in our land of private enterprise—that is the continuing aim of this great California-wide banking system.

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Bank of America, a member of the Federal Reserve System and Federal Deposit Insurance Corporation, has main offices in the two Reserve cities of California—San Francisco and Los Angeles, London, England Branch: 12 Nicholas Lane, London, E. C. 4. Manila office: 139 Juan Luna, Manila, Republic of the Philippines. Blue and gold Bank of America Travelers Cheques are available through authorized banks and agencies everywhere.



If you need wire that must meet critical standards of dielectric strength and mechanical properties, you'll be in good company using plastic.

Take the case of a manufacturer of hearing gids, for example. The lead to the earpiece must be as inconspicuous as possible, yet the delicate functioning of the entire apparatus is dependent on that wire. The manufacturer now uses a product of Plastic Wire and Cable Corporation, world's leading exclusive manufacturer of plastic-insulated wire and cable.

The development experience and manufacturing skill of our progressive engineers turn out hearing aid wire that's as accurately made as a fine watch. Like all PWC wire and cable, it's unexcelled in resistance to wear, perspiration and the whole list of hazards to insulation.

Chances are you have a precision molded plastic cord set - identified by the letters PWC on the plug - on a new radio, lamp or other electric appliance. Note the brilliant, permanent color and lasting high-gloss finish. See how a swish of a damp cloth keeps it clean. Non-fraying, non-rotting, non-cracking, it will serve you far better and longer than any old-fashioned cord.

For consultation on your wire or cable needs, whatever their nature, or full technical data on plastic insulation, write Plastic Wire and Cable Corporation, 401 East Main Street, Jewett City, Connecticut.

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Wire - Coaxial Cable - Shielded Cables Special Purpose Wire and Cable

the pump is fouled with sand or debris. When a breakdown occurs, the pump has to be pulled and replaced with one that works. With conventional pumps, that pyramids costs. Pulling a fixed pump from a 5,000-ft. well takes four men eight hours, and the well is out of production for that time.

With the free pump, a 5,000-foot well is idle only about 95 min., and pulling it is a part-time operation for one man. The pumper throws a valve and moves on to some other task while waiting for the pump to be forced up to him. When the pump reaches the surface, he returns to the well, retrieves the faulty pump with a light tackle hung from a collapsible mast. Then he swings a fresh one into place and throws the valve again, sending the new pump to the bottom.

• Concealment-The company sees still another advantage in its product. Underground operation would conceal oil

fields from enemy aircraft.

The free pump has been in the development process for eight years. Kobe completed and tested some 50 installations around the country before making it public. The pump is competitive in price with conventional equipment made by Kobe and others. Existing hydraulic systems are readily adapted to

Potential Markets in Corn Storage Needs

The Agriculture Dept. last week pointed out a ready-made market for manufacturers of ducting material fans, motors, heating units, lumber nails, snow fencing, building paper and ventilators.

It all revolves around the problem "soft" corn (corn put in late, that does not have time to mature before frost It must be fed to livestock to keep if from spoiling (BW-Jul.12'47,p38).

• Research Program-Agriculture appr priations for 1948 earmarked funds fi combined federal, state, and private to search into problems of storing and curing soft corn. One big need is portabl drying equipment suitable for farm use The recent Corn Conditioning Conference in Chicago focused public attention on this problem. It emphasizes that forced air ventilation, with or with out heat, may be required to insure safe storage. But it pointed out that limited that g supplies of equipment are handicapping scheduli supplies of equipment are handicapping the farmer.

To utilize ventilation techniques farmers would have to install ducts and fit them with fan and electric motors. Heating units might be required to



Proving That There Is a Lot in a Name

Call a mill a college and it looks twice as good to its employees. That, at least, has been the experience of Crown Manufacturing Co.-Shakespeare notwithstanding.

The idea began as a way to attract workers to the Pawtucket (R. I.) textile mill. The plant looks like a college anyway; employees used to call it that. The company went them one better. The grounds became the campus; employees students; the

management faculty; the president the dean. There is a baseball diamond, a college paper, club rooms-even a football team. And the sign out front reads "Crown College.

Result: a long list of coast-to-coast applicants for admission. This means a choice of personnel, high "college

spirit," low absenteeism.

It's not all a gag. Along with the work, the company provides good textile courses.

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varm the circulated air. Lumber and accessories would be needed to build rentilators. Building papers could be used to inclose door and window open-

Laying Plans—This week Agriculture Dept. officials moved to get their reearch program in motion. Agricultural angineers from government and industry met at Purdue University, Lafayette, ind., to work up preliminary plans for arrying out the program. E. A. Meyer, administrator of the research program, said he felt that the agricultural engineers still have time to "test and develop corn-drying equipment which manufacturers can turn out in time for farmers to use in drying their torn during the winter months."

PAPERWORK FARMED OUT

A small manufacturer who wants to let up a production-control system in his plant faces a big investment in machinery, staff, space. But without going to great expense he can now take advanage of proven business-control systems that govern inventory, purchasing, scheduling, and assembly. General Business Service Corp., 350 Fifth Ave., New York City, handles such work on a farmed-out basis.

The G.B.S. system is simple. From the manufacturer, it culls confidential information on present status of stock parts for each product, ideal stock quantity, quantity on order, and similar data. G.B.S. then sets up a control system. It furnishes all the weekly production paperwork, filled out and ready for immediate use in the plant. This includes: purchasing requisitions, receiving reports, raw material requisitions, manufacturing orders, subassembly requisitions and manufacturing orders, and assembly requisitions and manufacturing orders.

Also supplied regularly if desired are a status-of-inventory report, and an analysis of inventory. This furnishes top management with "high-spots" of the inventory situation.

The service maintains liaison with the plant in order to obtain the necessary data.

TABLETS IN A VACUUM

F. J. Stokes Machine Co., Philadelphia 20, has added a new idea to an already old and well-established industrial process of tablet pressing—the use of vacuum.

Pharmaceuticals, electrical porcelains, chemicals, sintered carbides, even yitamins are often handled industrially in tablet form. But conventional tablet manufacture is done under normal atmospheric conditions, using a press and die. A new Stokes machine has a vacuum chamber surrounding the



ONE important place to start reducing costs is with the machine where goods are made:

Speedier production is very definitely a function of New Departure ball bearings.

Operating with less friction, less wear than other types, the ball bearing is a "natural" for the higher speeds, greater rigidity and improved quality of product demanded by today's exacting production standards.

Thus, an investment in machines of modern ball bearing design is an investment in faster production—lower costs.

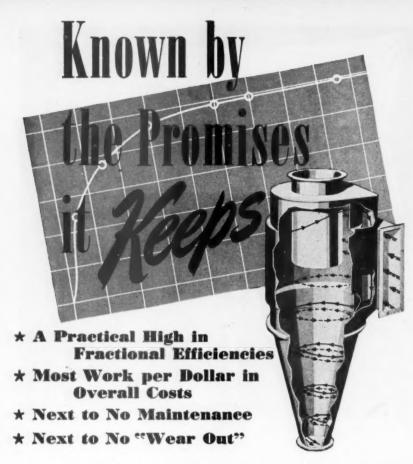
New Departure's technical literature is most helpful. Tell us your needs:

87% of machine tool builders to exhibit in Chicago use New Departure ball bearings.



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BALL BEARINGS

NEW DEPARTURE . Division of GENERAL MOTORS . BRISTOL, CONM. . Branches in DETROIT . CHICAGO . and Other Principal Cities



Ten years and more of Buell van Tongeren Cyclone performance in dust control and recovery, in a wide spread of American industries, lays indisputable evidence on the line.

The principle of the cyclone is essentially simple. But it remained for the van Tongeren patent to add real operating efficiencies in handling dust particles of micron-size fineness. Here for all to see is the unique Buell cyclone...with practical operating efficiencies a matter of Industry record.

To every engineer and businessman currently devoting time and thought to a particular problem of dust control or recovery, we offer the Buell fund of practical information. A most useful engineering perspective will be opened up by a study of our new book "Engineered Efficiency in Dust Recovery". A copy is yours for the asking. Write: Buell Engineering Co., 60 Wall Tower, New York 5, N. Y.



Engineered Efficiency in DUST RECOVERY



BUDD DELIVERS

The observation coach with the glass "bubble" has moved out of the demonstration class and into regular service. Budd Co. last week delivered to Burlington Lines two-first of an order of 40-for the St. Paul-Chicago run.

Burlington calls its de luxe, three-level cars "Vista-Domes." They follow the general pattern of its earlier experimental car and General Motors' Astradome (BW-Jul.28'45,p55).

Most striking feature is the three-layer observation window formed to contour by Pittsburgh Plate Glass Co. The outer layer is infrared-proof glass; the intermediate, clear plastic; the inner, laminated safety glass. This gives the passenger "winter sunlight"—without sunburn. Exeess cooling capacity counteracts the radiant heat.

die table, punches, and feeding device. It uses standard punches and dies. Stokes claims important advantages

for the new technique:

• Elimination of entrapped air speeds up press operation, reduces chances of lamination and soft edges;

Material feeds more quickly;
Thicker tablets can be produced with

a given depth of fill;

• Savings in materials costs can be made by cutting quantity of the binder, and because vacuum pressing does not require a high degree of uniformity in granulation;

• There is less dispersion of dust, hence less wear on machine parts.

In one installation (ceramic powder) vacuum pressing quadrupled speed, produced better tablets. Stokes is conducting further tests on metal powders, carbon mixes, ceramic tile with the process.

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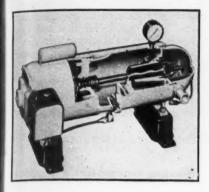
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NEW PRODUCTS



Lightweight Pump

A new shallow-well pump developed by Robbins & Myers, Inc., Springfield, Ohio, has both motor and pump contained in a single cast-aluminum housing weighing only 45 lb. The machine operates on a 1-hp. motor, has a capacity of 400 gal. per hr. at 20 lb. pressure, a maximum suction lift of 25 ft.

The only moving part in the pump is a steel rotor which revolves within a rubber cushion, creates positive suction and pressure. This principle has long been applied in Moyno industrial pumps, is said to stand up even under the strain of pumping sand or silt. Water lubricates the rotor, provides virtually frictionless operation. There are no gears or belts; parts are non-corrosive and rust-resistant. The pump is self-priming, has an automatic cutout that checks overheating.

Availability: immediate delivery.

Soft Seat

Encore, a new theater seat, is designed to harmonize with modern interiors, increase the comfort of movie patrons. The steel seat comes in a va-



BUSINESS WEEK . Aug. 9, 1947

riety of finishes, with or without a selfraising mechanism.

The back is designed to provide full support, curves to blend with the seat base. Hinge bearings are set in a friction board, insure quiet operation without the need for oiling. To protect clothes from grease or dirt, springs and working parts are fully inclosed. Cushion covers slip off easily for replacement. The manufacturer is Heywood-Wakefield Co., Menominee, Mich. Availability deliveries in October.

Fence Maker

A power takeoff on tractor or truck drives the Northwest Polesetter, a ma-



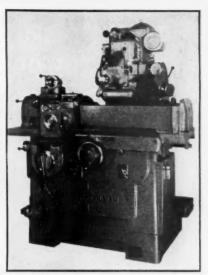
chine which will set up to 200 fence posts a day. The device has a 260-lb. hammer, operates with a pile-driving action. The maker, Northwest Tube & Metal Fabricators, 2658 Tetino St., Portland, Ore., also has a self-powered unit which can be operated from truck

Availability: immediate delivery.

Hob Sharpener

A new automatic hob sharpener for sharpening steel or carbide-tipped cutting tools has been announced by Barber-Colman Co., Rockford, Ill. Called model 6-5, the machine handles a wide variety of work sizes, and it is assembled of self-contained units to facilitate

The accuracy of the settings and the precise operation of the machine are said to minimize regrinding for corrections. Push-buttons regulate starting and stopping. Hydraulic table stroke can be varied from 3 in. to 8 in., operates at from 5 to 20 cycles per min.



Additional advantages claimed are interchangeable grinding wheels for highspeed or carbide-tipped hobs, adjustable grinding wheel speeds, sensitive quill feed for precision alignment.

Availability: deliveries in December.

Press Feeder

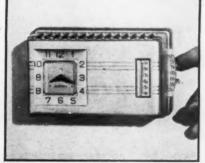
A new, low-cost, automatic, frictionroll feed can be used with any standard punch press. The machine handles metal, wood, plastic, or cardboard, is made by Benchmaster Mfg. Co., 2952 W. Pico Blvd., Los Angeles 6.

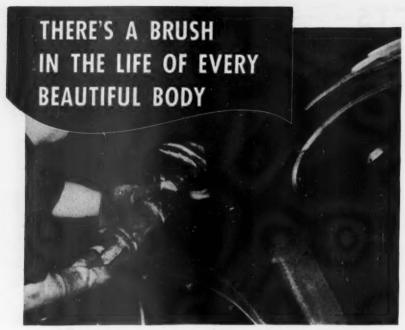
Friction drive may be geared to give up to 3-in. adjustments in feed. The machine takes stock as wide as 3 in., has a spring-loaded housing that adjusts for differences in material thicknesses up to & in. Rollers are easily reversed; two-bolt installation is said to permit rapid changing of the feeder from the front to the side of the press.

Availability: delivery in three weeks.

Fuel Saver

Fuel savings of from 10% to 30% are claimed when Chronotherm, a newly improved clock thermostat, is installed. The instrument has a bimetallic element that provides a slow, regulated heat pickup at the time chosen for tempera-







The top and sides of today's sleek new automobile bodies have all the appearance of being made of a single piece of metal. In reality, they are separate pieces welded

together for strength. With this welding operation, a metal cleaning problem is created. Every seam has a rough scale which must be removed completely.

Here is a typical auto production job where speed and perfection are demanded. And both are obtained by cleaning with a power driven Osborn Disc-Center wire wheel brush. Scale is removed in a jiffy and the surface prepared for a coating of solder to produce a smooth joint which, when painted, is invisible to the eye.

Removal of excess material, cleaning, finishing, roughing-Osborn brushes have won their spurs as time-saving, costcutting production tools on all these basic jobs. There's a type and size for every operation. And the man to show you how to apply these brushes for maximum benefits is the Osborn Sales Engineer. His experience is yours for the asking. Write or call today.

THE OSBORN MANUFACTURING COMPANY

5401 Hamilton Avenue

Cleveland, Ohio



WORLD'S LARGEST MANUFACTURER OF BRUSHES FOR INDUSTRY

ture increase. A series of short burner operations replaces the old continuous heating action that often overshot the temperature setting, thus wasting heat.

Time settings are possible in quarter hour intervals. Separate levers, externally controlled, adjust for day and night temperatures. The thermostat can be reset quickly when power failure occurs, Minneapolis-Honeywell Regulator Co., Minneapolis 8, Minn., is the manyfacturer.

Availability: immediate delivery in limited quantities.

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Engineered Nutcracker

Favorite weapons of the nut-cater have long been the heel, a hammer, or pincers. But Potterware Co., 85 Academy St., Newark 2, N. J., is making an "engineered" weapon that shells nuts with a flick of the wrist.

The device, which is made of die-cast



aluminum alloy, resembles a small bowl, scalloped into small divisions along the interior circumference. Fitted eccentrically into the bowl is a four-sided post or spindle. This spindle rotates like a shaft, but is eccentric on its base.

The nut to be shelled is dropped into the bowl, where it falls into the space which fits its size. A turn of the spindle causes the square sided post to apply a heavy squeeze on the shell, cracking it without crushing the nutmeat.

Availability: immediate delivery.

Automatic Newsboy

An all-weather newspaper vending machine that handles either daily of Sunday editions is being produced by Auto Newsy, Inc., Renton, Wash. The machine automatically adjusts for thickness, will sell papers or magazines from 6 to 250 pages thick.

Availability: delivery in 60 days.

BUSINESS WEEK . Aug. 9, 1947



"Business-Wise TWA sold me on Flying"

"Wise to the ways of the businessman, TWA has won my business, for keeps...





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ice He "As one of your cheerful, competent crew people pointed out, round-the-clock schedules in all important TWA cities include convenient flights that arrive right before and leave right after each business day.



"But probably the best feature of all is my new-found freedom to be with my family. Hours once spent on the road are now spent right in my own home — and the Mrs. calls TWA the answer to a businesswife's prayer...



"As for your complimentary meals, I never tasted better in the best hotels! And you should certainly be complimented for controlling their quality by pre-cooking and quick-freezing them in your own kitchens.



"So your Representative was right. TWA does appeal to business travelers — serving the areas that teem with business — on schedules that fit business routines. No wonder I'm sold on TWA — The Businessman's Airline."

All TWA passenger flights also carry mail and cargo.



TRANS WORLD AIRLINE



READERS REPORT.

Employees as Directors

Sirs:

It would seem from all the fuss and furor about your excellent analysis of the Taft-Hartley bill [BW-Jun.28 '47,p15] that many people still expect legislation to clear up all industrial

Don't they remember how the "drys" expected the Volstead act and the 18th Amendment to cure the nation's moral ills?

Labor and capital . . . have got to know, respect, and like each other. The "getting acquainted" phase is the important thing. . . .

Many large corporations . sess a large segment of stockholders who are also employees. . . . These people are much closer to problems of production and industrial relations than are the directors.

It is my suggestion that corporations should include in their lists of nominees for directorates a representative of their stockholding employees. . .

Richard F. Blough Johnstown, Pa.

Debt and Prices

Sirs.

It is popularly understood that, to support our public debt and government, we must operate at a high level of activity. There is, I believe, confused thinking, at the same time, that such high levels must be obtained by greatly reduced price indexes. It appears to me that over short periods of time, such as in World Wars I and II, the existence of a great increment of debt forces a positive and determinable increase in the prices of all things (and therefore the price index). War debt, unsupported by assets normally resulting from debts, is unpayable unless we write up the existing gross assets of the country. This thinking should result in a formula such as:

Prewar liabilities (1940 prices) + increase in national debt

= future price Prewar liabilities of nation

Proper values for prewar liabilities and for increases in national debt for both war periods could be used to check the validity of this idea, and could have a norm below which prices might drop only temporarily, or above which prices (as now) might only stand by reason of intense demand.

Simon Meyer

Property Development Co. Charleston, W. Va.

You are quite right in thinking that the great increase in debt growing out eral p ply b becau which He

World \$81,400

\$179,90

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of a war forces an increase in the general price level. However, you can't predict how great the increase will be simply by looking at the increase in debt, because there are a host of other things which also influence the level of prices.

Here is how your formula works out:

World War I: \$81,400,000,000 + \$23,800,000,000

\$81,400,000,000

World War II:

\$179,900,000,000 + \$207,500,000,000 \$179,900,000,000

= 215.3%

Actually, the price level during the 1920's was about 15% above the prewar (1916) level. Right now wholesale prices are about 81% above 1940 and most observers think they will settle down at a somewhat lower level.

The basic reason why an increase in the war debt boosts prices is that the process of floating the debt adds to the money supply (including both currency and bank deposits). The munitions and other things bought by the government are blown up or otherwise destroyed. But the money remains. As it circulates, prices rise.

But prices do not always rise proportionately with the increase in the money supply. The money supply doubled between 1914 and mid-1920 while prices rose 150%. Today's money supply is almost three times the 1939 total; the price level has not quite doubled.

Economists have been toiling for years to find some way to sort out and measure the forces which influence the relationship between the money supply and the general price level. They usually start out from what is called the quantity theory of money which can be expressed this way: The quantity of money (currency in circulation plus net demand deposits) multiplied by its rate of turnover equals physical production

multiplied by prices.

To know how an increase in the money supply will affect the price level, you must be able to forecast what will happen to the other two factors: physical production and the rate at which money changes hands. Mr. Lionel D. Edie did that very successfully early in 1946 when he used the quantity theory of money analysis to predict that the wholesale price index would rise to 140-150 if OPA controls were removed. The index now stands at 147.7.

It might be pointed out that the quantity theory of money is not the only method of analysis that can be used in predicting the future course of prices. In a Business Week Report to Executives, Aug. 24, 1946, we arrived at just as accurate a prediction. Our analysis was based on the relationship between costs and prices—except in the case of foods and rents, where we used the relationship between consumer expenditures and supplies.

Calendars,

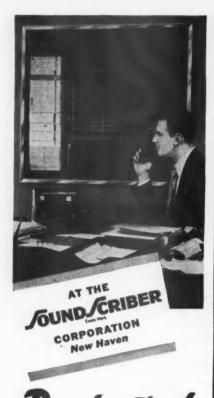
for example.

Take Time by the forelock and plan now for next year's calendar. If you want a good one-a calendar that will be chosen to hang on your customers' walls during all of 1948-you will need every minute between now and Christmas to plan and produce it. Remember: "Art is long and Time is fleeting." So give your designer enough time to enable him to do his best work. Warn your printer to make room for your calendar on his crowded schedule. Look into the question of mailing containersthey're hard to get. And put in an early requisition with your Hamilton merchant for an ample supply of Hamilton Andorra Cover in White, Ivory, or one of its five rich colors. This fine Cover Paper will turn your 1948 calendar into a New Year's keepsake of real distinction-a successful piece of direct advertising. W. C. Hamilton & Sons, Miquon, Pa. Offices in New York, Chicago, San Francisco.



HAMILTON PAPERS





Produc-Trol KEEPS JOBS ON

SCHEDULE

We needed a reliable, visual inventory control to replace ineffective records . . . and found Produc-Trol versatile, simple, and accurate. Our experience proves it can be applied to any troublesome control problems.

VISIBLE ANALYSIS of past, present, and future business operations, over 7500 companies now use Produc-Trol, the unique, visible control for scheduling of materials—sales, order and job controls—inventories—cost analyses, etc.

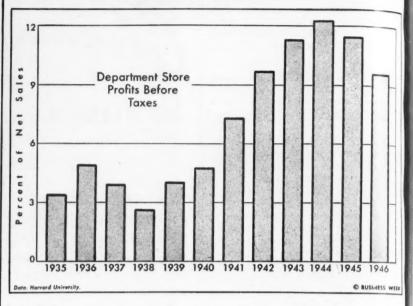


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CITY			STATE

MARKETING



Why Store Executives Worry

Rise in operating costs last year resulted in sharp drop in profits per dollar of sales. Payrolls biggest factor. Other bad news: lower margins, less turnover, fewer cash sales, more returns.

Despite record sales and earnings in 1946, department stores are viewing the future with caution. And their attitude seems to be justified. For instance

• Net dollar sales were 25% ahead of 1945, a whopping 250% above 1939. But most of this was due to price rises; unit sales were very little higher than the previous year (BW-Feb. 15'47,p15).

• Profits after taxes were 5.9% of sales. This compares with 3.6% in 1945 and a more nearly normal figure of 2.9% in 1939. But the jump was due entirely to the end of excess-profits taxes; the percentage of sales carried over to profits before taxes has been declining since 1944 (chart).

These data are contained in a report on "Operating Results of Department and Specialty Stores in 1946" distributed last week. The report, 27th in a regular annual series, was written by Professor Malcolm P. McNair of Harvard University, published by that institution's Graduate School of Business Administration.

• Expenses Up—The factor that causes department store executives the most worry is the sharp increase in store operating expenses. From 27.85% of net sales in 1945, they rose to 28.1% in 1946. Though this doesn't look like much of a jump at first glance,

it becomes alarming when viewed in the light of the 25% increase in sales; over-all operating expenses went up more than 25%.

For stores with annual sales of \$4-million or more, total operating expense per average transaction rose from 81½ in 1945 to 96¢ in 1946—an increase of nearly 18%.

• Wage Costs—The biggest factor in this rise was in payrolls. For all stores this item accounted for 15.5% of net sales in 1945; last year it was 15.9%. For the group of big stores, payroll cost per transaction rose 20%—from 45¢ in 1945 to 54¢ in 1946.

The survey reports that average total sales per employee were greater in 1946 than in 1945. But it credits this almost entirely to higher prices. It adds that, although there are no exact figures available, there is increasing evidence that number of sales per employee dropped last year.

• Other Dark Spots—There are a number of other facts cited in the survey that are not calculated to make good reading for store executives:

• Lower initial markups, combined with more and bigger markdowns, resulted in a drop in over-all gross margin from 37.6% of net sales in 1945 to 35.9% in 1946.

• The value of inventory on hand increased by more than half during the



Embezziement losses aren't "peanuts"!

Embezzlement losses, to use the vigorous idiom of America, "aren't just peanuts." As witness U.S.F. & G. case No. 181333, with losses totaling \$271,777.81. Or No. 4-MF-2, in which a shipping clerk appropriated merchandise worth \$34,000. With prices high and more money in circulation, losses due to employee dishonesty are rising sharply.

Yesterday's Fidelity Bonds may not provide adequate coverage today. Your company may have a sizeable deficit to make up in event of major embezzlement losses. Why not review your bonding program in the light of current conditions? The U.S.F. & G. agent in your community will be glad to analyze your program, without obligation. Consult him today.

"Consult your Insurance Agent or Broker

as you would your Doctor or Lawyer"

U. S. F. & G.

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FIDELITY & GUARANTY INSURANCE CORP., BALTIMORE FIDELITY INSURANCE CO. OF CANADA, TORONTO



ROSS Heavy LIFT TRUCK handles frames "by the bundle" at Ford's Lincoln plant.

Here's typical ROSS performance. It's the kind that has convinced one manufacturer after another that ROSS is the lift truck they can depend upon to solve their big-load handling problems most efficiently.

Remind those responsible for your materialshandling operations to investigate ROSS Heavy Duty LIFT TRUCKS. Three types, six models. Capacities, 5,000 to 18,000 pounds. Gasoline power. Pneumatic tires.



THE ROSS CARRIER CO.

300 MILLER STREET, BENTON HARBOR, MICHIGAN, U.S.A. Direct Factory Branches and Distributors Throughout the World year. This reflected: (1) low stock the beginning of the year. and (2) stocking up on goods that were unavailable during the war. Due to this rise, stock turnover diopped from an average of 5.4 times in 1945 (a record high) to 5.25 times in 1946 -despite the increase in sales. Since the first of this year stores have considerably improved their inventory position by: (1) clearing their shelves of ersatz merchandise-through ruthless markdowns where necessary; and (2) careful supervision of new orders (BW -Jun.21'47,p60).

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• The proportion of cash sales to total sales, which had gone up during the war, dropped sharply last year-from 54.1% in 1945 to 46.7% in 1946. The proportion of charge account sales rose correspondingly-from 35.7% to 41.4%.

• The percentage of returns, which had declined during the war, turned upward. But the 8.7% figure registered last year is still far below the prewar average.

• Coverage—McNair's study covers the operating results of 399 companies, operating 500 department stores in the United States and Canada. Their total net sales last year were \$3,280, 000,000. As an indication of the validity of the sample, the 25% gain corresponds very closely with the 27% increase for all U. S. department stores, as reported by the Federal Reserve Board.

PAPER BAG SHORTAGE

Out in the Midwest, grocers' kraft paper bags are again in short supply. Shoppers are complaining, and officials of big chains and supermarkets are decidedly unhappy. Principal reason for the shortage: Sales through these types of stores have been increasing faster than the paper industry can supply them with bags.

Leading bag manufacturers are not yet up to 1941 production on kraft paper bags. They were hopeful earlier in the year that they could gradually catch up on demand. But recent sales advances made by the big stores have caused something like a minor crisis. The industry estimates that it is about 30% behind on deliveries to large users, perhaps 10% behind on deliveries to wholesalers and others who supply smaller independent stores.

Some new production is coming in but it will not be making paper much before next summer. There is also talk-but little hope-of imported pulp

being used for kraft paper making. Meanwhile chain grocers in the St. Louis area, which is hardest hit at the moment, are putting signs up in their stores stating that the shortage "is the worst in history."

Canners' Dilemma

Name brands set record alès as less well-known canned oods pile up on shelves. Small back prospects may move them.

The nation's fruit and vegetable canuers and their distributors are taking a

(2) hard and suspicious look at what their
appened to them. appened to them during the past year. They had come through a period in hich the heaviest tonnage of canned tods ever produced sold at the highest prices ever. This had happened even the face of great competition both from frozen foods and from fresh prodto ace-better graded and handled than nce before the war.

the

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hich Success and Surplus-On the whole, was an enviable success story. The Dept. of Commerce had estimated earlier in the year that all canned foods



BOTTLE BATTLE AGAIN

The jeep holds the pretty girl; the bottles hold the jeep. In this trio, the bottle is the thing. The disposable beer bottle-Owens-Illinois Glass Co.'s fighting answer to the beer can (BW-Sep. 23'39,p32)-was a war casualty. Now it's making a comeback in a West Coast marketing test.

Brewers say that the one-way bottle-and the can-contribute to their prosperity; a container that doesn't have to be picked up and washed saves them money.

Big question to bottle makers: Will consumers pay a premium for a bottle they don't have to return? On the Coast, you pay 13é retail for an 11-oz. one-way bottle; 12¢ net on a 12-oz. return bottle; 14¢ for a 12-oz. can.

What's the Use?





Tacking strip







Textilene Sunsure*

HERE ARE A FEW of the many different Twitchell materials and some of their uses. Every day, more industries are learning about the versatility and usefulness of fibre materials as prepared by E. W. Twitchell.

Every purchasing agent, every design engineer, every manufacturer ought to know about these materials and their possibilities.

Many men who have investigated have found that the high degree of uniformity of Twitchell materials means faster and more economical manufacturing.

Bright, lasting colors are a big part of the Twitchell picture, and help many manufacturers to step up their selling. Twitchell materials can be pliable or surprisingly rigid. They can be combined with other materials such as wire, cloth, cellophane, burlap, cellulose, or can be inserted in metal channels. They can be easily sized, water-proofed, fireproofed, colored, painted, varnished, lacquered, waxed, or otherwise treated.

Twitchell welcomes your inquiries and will be glad to make up fibre materials with special characteristics, or in special shapes for your particular needs.

Just write E. W. TWITCHELL, INC., Third and Somerset Streets, Philadelphia 33, Pa:

*Reg. U. S. Pat. Off.

Paper Products for Industry

FOLDED PRESSED CRUSHED

in this all-purpose saw has been our business for 25 years



This marks the 25th year DeWalt has been specializing in making this famous saw. We created it. We perfected it. We've built more than 70,000 units. It's the only equipment we've ever made. The new era in woodworking demands a machine like DeWalt.

This versatile, all-purpose power saw is ideal for carpenter maintenance in or outside the plant, for crating and boxing, for pattern work, or for general woodworking.

DeWalt's entire production is devoted to building these saws. That's why deliveries are excellent with preference given to help ease urgent industrial needs and the housing shortage. Write for a copy of the DeWalt catalog, and discuss this machine with your technical men. DeWalt Inc., 358 Fountain Ave., Lancaster, Pa.

DE WALT



This Is Really a Filling Station!

It's just a snack bar in the corner of a filling station lot but it might provide the answer to a petroleum marketing problem: maximum utilization of high-cost property.

Space in the Los Angeles Station was provided by Standard Stations, Inc., subsidiary of Standard Oil Co. of California. A. V. Spencer, Los Angeles restaurateur, built the test bar for \$30,000, serves 500 persons

daily. This produces about \$7,500 a month, of which Standard gets a flat 5% or about \$375.

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Oilmen calculate that Standard thus gets a return from the food outlet equal to 1.5¢ for every gallon of gas sold during the month (estimated at 25,000 gal.). They also point out that such a margin can be mighty handy in a tight competitive situation.

sales would total well over 400 million cases, that the 1946-47 season carryover would be somewhere around 120 million cases.

But not everyone was happy. In this apparently healthy industry, many smaller operators complained bitterly of unsalable surpluses. Nearly two months ago they appealed to Congress for relief, asked that the government buy up large stocks of canned fruits, vegetables, and juices for foreign relief. They said that they were stuck with nearly 70 million cases, 80% of it in the hands of distributors, 20% in canners' hands.

• Catastrophe—If this heavy backlog was not moved out of the market immediately, they foresaw catastrophic consequences. Canners could not afford to make commitments for purchase of new crop fruits and vegetables. Distributors—who claimed that they had enough goods on hand to keep them going for a year at the present rate of distribution—said that they could not buy new-pack merchandise from the canners.

But the request didn't even get through a subcommittee of the House Agriculture Committee. The Dept. of Agriculture turned an equally deaf ear. So did the State Dept. (BW-Aug.2 '47,p5).

• Bright Side—But there was another and happier side to the picture. Leading

brand name canners came into the maket last year with big advertising campaigns, plenty of branded merchands for the first time since before the war and warm and friendly feelings for the distributors. This friendliness became apparent when they allocated merchandise to wholesalers, chain supermakets, and big independent retail buyers. Allocations were apparently generous and, on a month to month basis, were just about equal to sales.

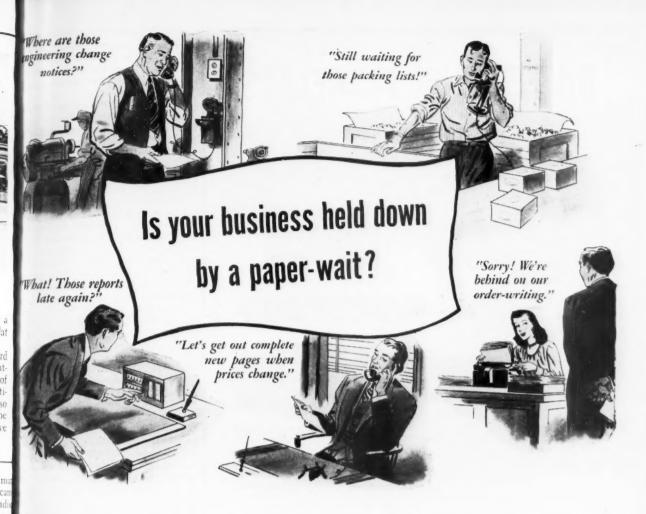
The big brand name canners—Libby, McNeill & Libby, California Packing Corp., Stokely-Van Camp, Minnesot Valley Canning Co., and a few otherare still doing a land office business. Never before have branded cannet foods sold as fast or at such high prices. Result: As the end of the season approached, the big brand name canners had no surpluses of branded items on hand.

• Consumer Mood—The brand name canners had followed no revolutionar marketing techniques to achieve the success. They depended principally on heavy advertising, fair allocations to all distributors, and heavy display in self-service groceries.

But there was one factor which man have been more important than man canners—particularly the smaller fellow —believed. Big canners were convinced that during the war consumers generally

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BUSINESS WEEK . Aug. 9, 1941



DELAYS in processing business records and communications can cause costly bottle-necks in factory, field or office. These slow-downs can usually be traced to tedious typing and retyping of routine forms—limitations of office writing machines in producing carbon copies—collating, interleaving and correcting carbon copies, or use of old fashioned duplicating methods.

If normal work-flow lags at times in your business, it will pay you to think of Multigraph.

For with the Multigraph method, blank paper is quickly transformed into business records complete with form and legible written information—all in a single operation. Key to this fast, simple operation is the exclusive Multilith duplicating process using the amazing new reproducing masters.

Ask your local Multigraph representative to demonstrate the Multilith system and the new masters—to show you how to prevent waste, cut costs and speed paper work in your business.



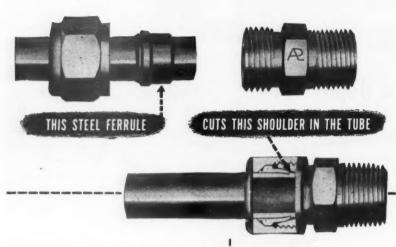
Multigraph

SIMPLIFIED BUSINESS METHODS

Multilith, Systemat and Multigraph are Registered Trade Marks

Purchasing . Receiving . Inventory . Order Writing . Shipping . Billing

ON FERULOK FLARELESS FITTINGS



The shoulder provides a permanent leakproof seal-and the ferrule does the complete job; you won't need any special tools.

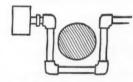
When the nut is first pulled up, this controlled cut on the outside of the tube wall is formed once and for all-regardless of draw marks or surface scratches on the tubing. The ferrule locks into position and stays there, even through repeated reassembly.

For heavy wall or hard tubing, the new PARKER Ferulok fitting is the last word in an easy-toassemble, vibration-proof, pressuretight joint. Write for bulletin A57.

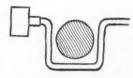
THE PARKER APPLIANCE CO. 17325 Euclid Ave. · Cleveland 12, Ohio

Plants: Cleveland and Los Angeles Offices: New York, Cleveland, Chicago, Los Angeles, Dallas, Atlanta Distributors in Principal Cities

FREE FLOWa comparison



OLD METHOD - Each connection threaded-requires numerous fittings-system not flexible or easy to install and service. Connections not smooth insidepockets obstruct flow.



MODERN METHOD-

Bendable tubing needs few-er fittings—no "threading on the job"—system light and compact—easy to install or service—no internal pockets or obstructions to free flow.

had tired of the variety of brands a qualities of canned foods on red grocery shelves. So when supplies he ened up, consumers apparently ferred to buy known brands since prices were high.

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· Solutions?-But the success of the boys in the industry didn't help little ones. Their problem, lacking from the government, was to mark products evidently no longer popul with the buying public. And there reason to believe that eventually the might be able to do just that.

For one thing, there was a limit the amount of goods the brand nan canners could produce. But another more important reason could be four on U. S. farms. Bad weather and bla were threatening this year's crops. A farmers were balking at selling prod to canners at low prices. With supp tighter, not only would canned goo prices rise further, but the small car ners would be able to sell their big can edits o over after all.

Liquor Stocks Too Big: Ohio Stops Buying

Ohio, a liquor monopoly state, h found itself with a liquor inventory completely out of balance that all bu ing has been stopped. And it won start again, according to Liquor A ministrator Dale Dunifon, until sale at least start to pay off the bills more than \$16 million that stare the department in the face.

• Inventory Rise-Normal inventory for the state has been about \$17 millio By last January it had zoomed to \$2 million-and an additional \$13 million was on order.

Dunifon issued the stop buying orde when he found the inventory of brands now to be about \$42 million -and badly out of balance. For e ample, there was scarcely any Scott whisky, only a month's supply of son popular blend whiskies. Yet there enough of some cordials, rum, and g to last as long as 200 years at t present buying rate.

• Low Income-In addition to not have ing enough money to pay current l quor bills, the vast inventory is co ing the state \$26,000 a month f storage. Instead of the state's receiving from its liquor department an expecte \$1 million per month, only \$750,00 has been turned over to it so far th vear.

In an effort to solve at least a part of the problem. Dunifon took a ti from the state of Michigan, which, a similar situation, had asked supplied to take back part of the excess stool (BW-May3'47,p64). Those who it fused Ohio's request have been given understand that their brands will missing from the state's list for a g time to come.

nquiry Starts—The state's inventory whisky is not out of line to any nat extent—except for some cheap ands. It is the stocks of gin, brandy, and cordials that have tied the nor department of Ohio into a knot. It is under way to detern the who is or has been at fault.

AMED TO BUTLER BROTHERS

Butler Brothers is celebrating its th birthday with a new president. is G. R. Herberger (below), forpresident of G. R. Herberger's, (department stores).

Despite the anniversary, Butler, like my other wholesalers, has found 1947 bad year for celebrations so far. For a first six months, it reported a ficit of \$158,900 after tax carry-back edits of \$1,922,800. For the same ciod last year it had a net income

\$2,065,526.

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Nevertheless, as new head of the tion's largest wholesaler of mediumiced, popular-demand variety goods, a goods, and general merchandise, triberger expressed optimism. He laid to be the property of the prop

Herberger succeeds T. B. Freeman, to became Butler chairman, filling post left vacant since the death of ank S. Cunningham in 1941.



G. R. Herberger



Building good will . . . introducing new products . . . making out-of-season demonstrations . . . instructing in product maintenance and servicing—International Harvester Company does all these things successfully with motion pictures. Thirty-six years of experience have proved to IH that motion pictures are amazingly effective in reaching the minds of the millions—convincingly and at low cost.

Latest of about 40 IH sound movies now in active use is "County Fair," a 22-minute sound film in full color which entertains while it supports the firm's two sponsored 4-H Club contests in field crops and frozen foods. More than 100 prints of this film were busy all last winter at "Family Parties"—evening entertainments by IH dealers for local farm families.

Thirty-two Filmosounds insure fine projection

Like hundreds of experienced sound film users, IH knows that no film program can be fully successful without fine sound and picture reproduction. That's why this commercial film pioneer recently bought 32 new Bell & Howell Filmosound 16mm sound film projectors.

Why Filmosounds excel

In their sound and picture quality and in their lasting dependability, Filmosounds reflect a rich heritage . . . Bell & Howell's forty years of experience in supplying Hollywood's most exacting equipment needs. Filmosounds are easy to operate, too. And they offer built-in protection for valuable films. Those are a few of many reasons why Filmosounds are widely accepted as the standard of quality in sound film projectors.

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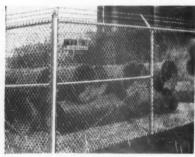


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FINANCE (THE MARKETS-PAGE 90)



MORE FREIGHT shipments are a blessing to the railroads as costs rise.

Rail Income Surprisingly Good

Despite sharply higher costs-particularly wages-Class roads netted estimated \$200 million in first half of '47-best pead time figure since 1930. But carriers are worried about the future

Railroad earnings in the first half of this year weren't as breath-taking as those of business generally (BW-Aug. 2'47,p15). But they were nothing to be ashamed of, either (box, page 64). Estimates last week put profits at around \$200 million after payment of all charges.

That figure, to be sure, seems mild compared to the \$289 million to \$459million of net income the Class I roads piled up in January-June during the 1942-45 boom.

• Comparison—But such a comparison is hardly fair. Skip the war years, and you find that 1947 brought the rail industry the best first-half in many a day. By comparison:

• The January-June, 1946, operations showed \$28 million of red;

• In the first half of 1941 only \$173million of profits came in;

• In 1931-40, when operations were in the black six years, full annual earnings never rose above \$185 million.

More: If the normal seasonal pattern prevails during the rest of the year, firsthalf operations appear to augur full 1947 gross revenues in excess of \$8billion, net carnings of over \$500 million. That's not hay. Gross in 1929, for example, didn't quite reach \$6.3 billion; earnings of over \$500 million

would mean the best year since 19 when profits came to \$524 million.

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SALES

• Uneasiness-Yet railroaders fail to cheered out of their worries. Nor ha rail shares had much bounce on the stock market lately.

Obviously, the big bogey is postu operating costs.

• Wages—As things stand now, as age wages are up 53% over 1939. En ployees currently get almost 52% the gross. Only a few years back, the share was 42% to 45%.

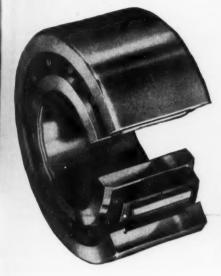
The uptrend in wage scales, more over, is far from its end. New demand involving a 20¢-an-hour pay increase the industry's million nonoperating workers, are now on the table. Gran ing them in full, say the roads, would boost payrolls \$526 million annual and swell payroll taxes \$46 million.

The operating brotherhoods, however seem more interested in changes working rules than in straight pay creases. Over 40 have been suggest If all had to be granted, the industry claims, annual operating costs would rise \$1 billion.

Thus no one thinks that a further substantial rise in labor costs can b ducked. If only a 15¢-an-hour his results, the total annual gross cost, cluding payroll taxes, might run

BUSINESS WEEK . Aug. 9. 19

REDUCE SHUT-DOWNS ROLLWAY Right-Angle Loading



Cut Maintenance Costs Get Longer Bearing Life

Right-Angle Loading splits compound loads into the two component parts of pure radial and pure thrust . . . and carries each of these components on separate bearing assemblies.

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RIGHT-ANGLE-LOADED

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Prevent wedging of rollers and pinch-out Reduce roller end-rub, with its wearing friction Hold starting and operating torque at a minimum Eliminate complicated stresses Since only pure radial or pure thrust loads can be imposed on any single bearing assembly, unit pressures are substantially reduced Since all loads are carried at right angles to the roller surface, compound or oblique loads are avoided, and so are the resultants of the oblique loads Right-angle loading permits Rollway Bearings to carry greater radial or thrust load capacity in any given dimension Right-angle loading assures solid cylindrical rollers of greater roller mass and uniform roller cross-section ... greater resistance to shock loads and vibration ... longer life expectancy under continuous heavy-duty service.

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derstanding of your bearing needs. Strictly confidential. No charge, of course.

HOW THEY WORK



When it's pure radial load, the load bears at a right angle to the rollers.



When the load is pure thrust, it bears at a right angle to the rollers.

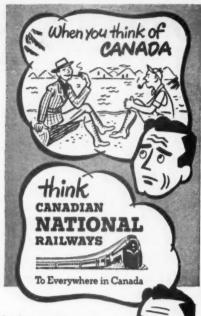


When radial and thrust are combined, the two Joads are resolved separately at a right angle to the rollers.

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First Half Year Rail Earnings-1947 vs. 1946

	-Gross R	menues-	-Na I	#COM#	Estimat	nmon Share
	1947	1946	1947	1946	1947	1946
			ousands of		4241	1946
Atchison, Topeka & Santa Fe	\$207,352	\$196,210	\$18,467	\$17.639	\$6.33	\$5.90
Atlantic Coast Line#	68,164	65.474	5.035	D815	6.11	20.99
Baltimore & Ohio	174,326	139,346	• 5,237	D16.690	1.58	1/6.97
Boston & Maine	40,986	36,902	1.596	D868	NA	7.4
Chesapeake & Ohio	152,176	108,320	20,609	8.766	2.60	1.08
Chicago, Burlington & Quincy	101,731	95,044	13,321	11.036	7.79	0.46
Chic., Milw., St. Paul & Pac	107,976	93,475	2,742	D3.539	A2.43	AD3.16
Chicago & North Western	83,030	74,342	717	D2.950	A0.78	A D3.22
Delaware & Hudson #	21,843	17,055	1,840	D252	3.57	1/0.49
Erie	73,422	58,007	1,764	D5.194	0.31	D2.53
Great Northern	85,649	74,303	6,096	2,489	A1.97	40.80
Gulf, Mobile & Ohio	17,027	14,356	1,064	D159	0.66	D1.41
Illinois Central	118,519	100,641	8,302	2,306	5.70	1.29
Lehigh Valley	36,142	31,390	122	D1.838	0.10	D1.52
Louisville & Nashville /	78,587	66,443	6,666	2,969	2.85	1.27
Missouri-Kansas-Texas	31,974	29,899	1,004	936	A1.51	A1.40
New York Central	338,181	287,609	2,054	D9,386	0.32	D1.46
N. Y., Chicago & St. Louis	45,188	33,619	3,951	235	8.50	D2.51
Norfolk & Western	81,388	59,580	15,961	9,644	11.03	6.54
Northern Pacificf	55,167	48,785	2,759	D1,753	1.11	D0.71
Pennsylvania	438,649	377,230	D9,010	D23,509	D0.68	D1.79
Reading	56,800	47,809	4,477	429	2.20	DO.69
Seaboard Air Line	53,506	49,855	3,746	D3,317	NA	NA
Southern Pacific	255,029	236,800	*22,411	*17,706	NA	NA
Southern Railway	110,708	103,380	6,324	3,071	3.72	1.21
Texas & Pacific	28,814	27,750	2,552	2,878	5.06	5.90
Union Pacific	185,579	166,935	20,602	9,909	8.37	3.56
Virginian	18,424	11,866	3,963	1,292	2.50	0.36
Wabash	45,941	37,361	3,961	1,745	4.28	0.57
Western Maryland	20,653	14,637	2,660	827	3.60	0.16
#—Five months through May. A—Earnings on preferred stock.		railway op Deficit.	erating incom	ne. t available.		

wards of \$500 million. This would mean a net cost of some \$320 million after federal income taxes.

• Cost of Supplies—Almost as serious is the rise in the price of materials, supplies, and fuels. Recently such costs had been running some 62% above their prewar level. Since then they have raced ahead still further.

All told, operating costs rose \$2.3-billion from 1940 to 1945, according to the industry's figuring. Subsequently another full billion has been piled on.

• Passenger Traffic—Another headache

is the recent trend of passenger traffic.

During the war, human cargo brought big profits. Passenger revenues

then made up 19% of the gross.

But soon after V-J Day, passenger traffic and profits started to fall off.

Lately humans have been furnishing only 10% of the gross. Thus an offset

to rising costs is disappearing.

• Savior—Seemingly, amid all these troubles, the rails shouldn't have had a good first-half in 1947. That they did is the result of two mighty factors:

• A sharp uptrend in freight to new

peacetime records;

Retention of much of the increase in operating efficiency acquired since the early 1920's, but particularly during the war years.

Loadings were 14% higher this first-half than last. (That's partly due to record-breaking industrial production, partly to fewer strikes.) The job

was accomplished, moreover, with 30, 000 fewer boxcars than in 1929.

This year's volume of freight but ness couldn't have been carried, however, without high skill in handling.

• Efficiencies—Freight cars, for example, now have an average capacity over 50 tons vs. only 43 tons in 192 Freight train speeds average 16 m.pl vs. only 11.1; the average load px train is 1,086 tons vs. 676; average length is 53 cars vs. 38; gross ton mile per train hour are 37,100 vs. 16,18

But despite more freight traffic as more skill, the roads want to shot themselves up still better. Thus the are asking the Interstate Commence Commission to boost freight rate 16%. That would add about \$1 billion more revenue at 1947 traffic levels But a wage hike, the roads emphasize would put them right back where the were. So they want a future second raise to cover whatever new costs come out of the wage parley.

• Goal—What the roads apparently as driving at is a return on rail property of 6% (which the Supreme Court had held "fair and reasonable" for public utilities). This year the roads think their return will be about 3.75%.

Hearings on the rate matter at scheduled to start next month. Their fingers crossed, the roads are hoping.

• A decision will come quicker that last time.

Wage raises won't be retroactive.

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BUSINESS WEEK . Aug. 9, 1947

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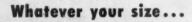
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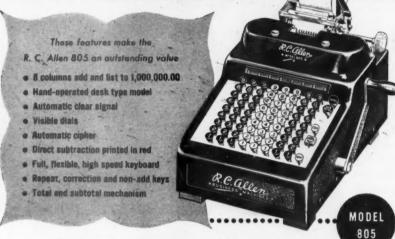




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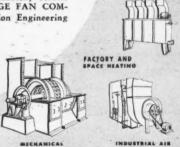
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for Permanent Jobs at the NEW TUCKER PLANT

California Bans Sale Of Tucker Stock

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Tucker Corp.'s new stock issue sorbed another hard blow last we this time from the California Division of Corporations. Other states hedged with many restrictions Tur right to sell the stock (BW-Jul 20) p20); California's answer was a "No!"

• Ruling-"The plan of business of applicant is unfair, unjust, and equitable," was the blunt ruling Commissioner Edwin M. Daughe of the Division of Corporations. securities it proposes to issue and method to be used . . . in issuing disposing of [them] are such as work a fraud upon the purchasers.

Floyd D. Cerf Co., Inc., Tuck underwriter, had hoped to sell in (fornia 500,000 of the 4 million sh being offered. As a matter of California brokers were already p ing the stock-until the Division Corporations headed them off.

• Assurance-Despite this setback, C reported at the end of last week to sales were going well. At that time the underwriter reported, Tucker halready realized sufficient cash to sure it possession of the governme owned Dodge-Chicago plant under the terms of its lease with War Assets A ministration.

The issue has been no out-the-wi dow selling job, though. And with good bit of the stock still unsold the formal offering price of \$5 a shan it is now quoted on Wall Street



FAVORS for a party named Tucker.

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the ball—all day—or is "summer slump" showing its signs? It is? Then now is the time for those bargains in boosted "off-season" output—R & M Exhaust Fans. They keep men dry . . . and driving!



YOUR EXECUTIVES, TOO . . . do a better job when heat doesn't hinder their headwork. Air in motion helps keep minds in motion. For front-office men, there's nothing finer than a handsome, handy, quiet-as-a-whisper R & M De Luae Fan.



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over-the-counter market at 4% bid, 4% asked.

• Union Support—Perhaps the strongest Chicago boosters of the issue aside from Cerf have been the members of Local 83 of the United Auto Workers (C.I.O.) This is the local to which the Tucker employees belong. By July 24, members had already "purchased \$60,000 worth," according to Steve Kane, chairman of the local.

To further this aim, the Organizing Committee for Permanent Jobs at the New Tucker Plant (Steve Kane, chairman) last Saturday put on a 13-hour "labor preview of the strikingly different Tucker '48." Tickets (picture, page 66) were distributed exclusively by local union offices.

Farm Mortgage Increase Causes Concern

Both business and government circles are beginning to show concern over the upward trend of the U. S. from mortgage debt.

In 1946, farm mortgages climbed some \$170 million, bringing the overall total up to an estimated \$5½ billion. This put an abrupt end to the downward trend which had been going on steadily for 16 years.

• Still Low, But—Outwardly this would not seem disturbing. Actually the farm mortgage debt was still—except for the record low of 1945—at the lowest point in 32 years. This meant that the total debt was far under (by \$1½ billion) the figure at the beginning of the war. And both debt and interest charges per acre were far below the 1923 levels.

But several other factors are worrying the experts:

• The average size of new farm mortgage foans has been increasing sharply. In 1940 they averaged \$2,290; last year they averaged nearly \$4,000.

• The number of new mortgages has shot up; last year they stood 26% above 1945.

• Inflation in farm real estate prices has reached serious proportions. Average price per acre is now 92% above the 1935-39 average, only a shade (6%) under the record 1920 inflationary peak. And sales reached a new high last year.
• Will Prices Hold Up?—Many wonder just how long the current high produce prices—chief cause for the farm real estate boom—are going to hold up. Prices could decline an average 15% or

OLD STAND, NEW POST

come to the rescue.

American Rolling Mill Co. is one of the few in the heavy industries field to have a special representative in charge

so before government support would

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BUSINESS



Fred B. Dechant.

stockholder relations. For the job it as picked Fred B. Dechant, manager its Washington (D. C.) office for the ast five years. Dechant joined the comany over 20 years ago, has been supersor of collateral advertising and genral manager of sales.

The move is part of the company's stensive program to tell stockholders hat it's all about. From his office in owntown New York, Dechant will also erve as liaison man with Wall Street anks and investment houses.

The Missouri-Kansas-Texas R. R. has st its onetime ambition to become a reat Lakes-to-the-Gulf system (BWun.22'46,p42). The road's directors have voted to drop further con-ideration of a possible Katy-Chicago & Eastern Illinois-Chicago Great Westm merger. Basis of their decision: n unfavorable report by outside engineers hired to study the feasibility of

Robert R. Young, chairman of Allethany Corp., is increasing his nonrail investments. To his already substan-tal holdings in the film, utility, and investment-trust fields, he has just added farm equipment manufacturing. Along with Allen P. Kirby, who has long been Young's moneyed partner in his various ventures, he bought a ne-third interest in the Davis Mfg.

Co. of Wichita, Kan.
Stockholders have finally resecured control of the St. Louis Southwestern Ry. after almost 12 years of bankruptcy. Despite earlier misgivings (BW-May10 47,p76) both the U. S. District Court and Interstate Commerce Commission recently agreed that: (1) Earnings in recent years had actually restored solvency; and (2) no drastic reorganization

was necessary.

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Honolulu—Montreal—Ottwaw—Vancouver—Amarcha
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LABOR



TRUCE on the Rouge: Ford's Bugas (left), U. A. W.'s Leonard agree to wait and sh

Ford Terms a National Pattern

Expedient of delay gets around thorny union liability setion of Taft-Hartley act. U.A.W. wins major point; company wonot file suit during compromise "study period."

Delay and then more delay is the emerging technique for handling the union liability issue under the Taft-Hartley law—it is a thorny question with an as yet invisible ultimate solution.

The expedient was developed in Detroit this week after negotiators for the United Auto Workers (C.I.O.) and the Ford Motor Co. ran head-on into each other on the issue. A frenzied week end of dickering, followed by an intermittent all-day, all-night negotiation, solved the issue only by tabling it

The union thus won a victory of essentials. The company agreed not to file any liability suit during the study period, running up to a full year. The formula is a variant on the unconditional surrender of the coal mine operators in the negotiations with the United Mine Workers. It leaves the liability section of the Taft-Hartley law all but completely impotent.

• Study Committee—The Ford-U.A.W. formula calls for an initial three-month study period on the issue by a committee consisting of two men from each side. If they reach no unanimous decision in that time, they will add a fifth member to the committee.

Study will then proceed for an additional three months, or more if a

majority of the group wants it. At a maximum one-year term, the uncan reopen the issue on direct netiations. During all of this period, it company agrees not to sue the unfor contract violation. But it matains all other rights under the agreement—which is still incomplete.

If no solution on the issue is reach during the full year, the union is to strike. If it should go out on strik all other provisions of the contract wapply.

• Fashioning a Trend—Hammering of this set of conditions was a job of more than two days of argument punctuated by dissensions within bot fronts, hopes and despairs, and expanding a congressional threat of inquiry.

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Ford's first proposal was distilled from a general trend in management thinking evolved since mid-July. In the liability clause of the Taft-Hartley law held the potential of creating industrial was fare. And the warfare could concernably stop the national economy deal in its tracks.

Management laid out its general pasition in the first Ford offer, and feeler moves in the strike at Murra Corp. (BW-Aug.2'47,p63). And the position ran directly counter to the surrender of the coal mine operators

70



The Policy Back of the Policy—Our way of doing business that makes your interests our first consideration

JUNIOR looked so shocked and puzzled that I laughed—but not for long. I remembered that I must have had that same look after my own *real* smash-up.

I was plenty worried. Somehow I'd never thought an auto accident could happen to me. Then I recalled what Jim said about Hardware Mutuals insurance when I bought it some years ago.

"Day or night, when you need Hardware Mutuals service you'll get it—fast," Jim said. He told how prompt and sympathetic their claims service is—and mentioned those substantial dividend savings I've been receiving every time I've renewed my policy.

Jim was right. Thanks to Hardware Mutuals

my worries were quickly over. So my advice is: drive carefully, and get Hardware Mutuals low-cost, full-standard protection—with all the benefits and plusprotection of the policy back of the policy.

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who agreed to the now-famous "able and willing to work" clause in the contract with John L. Lewis (BW, Jul.12'47,p80).

Jul.12'47,p80).

• Club in Hand—Instead of signan away all rights, manufacturers, as easy denced by the initial Ford more, wanted to keep hold of this club. But they promised not to use it when the union itself was not to blame for contract violations.

Thus, at Ford, there would have been no suit if the union (1) refused to stand behind an unauthorized stale and its leaders, (2) tried actively he end it, and, (3) allowed the impartial company-union umpire to decide whether labor had carried out its part of the bargain.

U.A.W. rejected this formula. It reason was that "life and death" power would be placed in the hands of on man: the umpire. The flat rejection of this proposal led to free expectation of a strike this week.

• Proposals—Last Sunday the compancame back with another proposal—the the four-man committee be set up Ford first proposed a six-month ten for these negotiations. The union del gation caucused. It then decided the if it could obtain a year's term it would accept the proposition.

Meanwhile, the co-author of the new labor law, Rep. Fred Hartley, we learning with high interest about the six-month study period. He issued statement promising an immediate investigation to see whether Ford and the union were jointly trying to evad the new law.

This evidently was a factor in causing Henry Ford II and his top advise executive vice-president Ernest Breech to turn down the proposal to which the company vice-president on labor John S. Bugas, had assented. The conferences resumed.

• Compromise—Hours later the united agreed to one change in its counted proposal: The negotiations would reproposal: The negotiations would repropose that the company-sponsore term of six months, and up to the union-demanded period of a year, if the impartial fifth committeeman strotted.

Anouncement that the threatened Ford strike had been "canceled" for lowed speedily. And Hartley declared himself satisfied that the terms of set tlement were not an evasion of the law.

Both parties view the compromis as a concession dictated by self-interest. The company doesn't want to provide the testing ground for a protracted strike against the law. The issue them would be bigger than the Ford Motor Co. It would attract to the battle a much wider section of the labor motor ment than could ever be interested in direct U.A.W.-Ford dispute. Nor does

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Liability and Consequences

Management is coming face-toface with the ticklish problem of union liability clauses in a wide scattering of cases under the Taft-Hartley law. Here are some of the week's developments:
• The International Harvester Co. has offered to omit a nostrike provision in future labor contracts, in return for a written union promise of "reasonable, positive action" to avert wildcat strikes. The C.I.O.'s Farm Equipment Workers Union refused, asked the company to waive its right to sue the union for strike damages.

• The American Paper Goods Co., Chicago, signed a new labor contract with a "no-suit" clause. In return, A.F.L.'s General Service Employees Union pledged its "best efforts" to prevent wildcat work stoppages.

• The Globe Co., Chicago manufacturer, filed suit against C.I.O.'s United Steelworkers of America and its Local 3868 for strike damages. Company alleged the union struck July 14 in violation of its contract. It placed damages at \$75,000 to Aug. 1, asked \$30,000 more for each week the stoppage continues.

• In another strike damage suit, the Tincu Forging Die & Tool Co., Chicago, asked \$25,000 damages, plus \$5,000 a week additional, from the International Die Sinkers Conference, an independent union. The company alleged the union "induced" 15 employees to quit work July 15 to support other members of the union who were on strike against the Kropp Forge Co. Tincu was engaged in subcontract work for Kropp Forge. When the union settled with Kropp Forge, what started as a sympathy strike became a strike against Tincu for new contract terms.

the union want to take on such a fight for the sheer joy of it. In achieving legal immunity it has what it wants, much as it would prefer a less disguised arrangement.

• Dead Letter?—If no major company and major union offer themselves to fight the issue out, the liability section of the Taft-Hartley act will fall into the dead-letter box. It will then be up to Congress to determine whether its conception of the public interest should be forced upon a management which prefers to bargain some of its new rights away.



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NLRB Gets Set

As Aug. 22 deadline nears, board is in frenzy of activity. It must set procedures, policies; 5,000 old cases still pend.

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For more than a decade every government agency which has found itself housed in the old, rococo Rochambeau Bldg, has been acutely uncomfortable. And it wasn't only a matter of the unsuitable accommodations.

If a visitor failed to understand the real reason, it was because he hadn't been hauled over by a veteran Washington cab driver. If he were, his direction to the cabbie soon evoked an interesting tidbit: He was being driven to what, in the city's gaslight days, had been its fanciest house of assignation.

The Rochambeau is currently occupied by the National Labor Relations Board.

• Still Under Scrutiny—As the busiest agency in Washington this week, NLRB has little time at the moment for fantasies about the history of its environs. Nevertheless, not since the days when carriages pulled into the Rochambeau's porte-cochere with their shades drawn has the virtue of its occupants been a matter of such public interest.

A congressional committee is suspicious. Labor is mistrustful. And jealous employers want to be certain they are not cheated of new rights conferred upon them by the Taft-Hartley act. Under such pitiless scrutiny the board must work out a program for living like Caesar's wife.

• Problems—Facing NLRB is the Aug. 22 deadline when the new law takes effect (BW—Jun.28'47,p15). Before then it must: (1) dispose of many of the 5,000 pending cases; (2) establish procedures and policies to be followed in administering the new law.

On the first problem, some preliminary steps have already been taken. The 21 regional NLRB offices have more than 4,000 of the pending cases. They have been instructed to send to Washington any unfair labor practice complaints which have not had hearings and which do not allege illegal conduct under the new law.

Since the Taft-Hartley law does not give status to supervisory employees, all union petitions seeking certification of units involving supervisors are being dismissed.

• Special Precautions—The regional offices also are taking special precautions with election petitions involving plant guards, craft units, or professional employees. These groups have special status under the new law.

Until Aug. 22, decisions are being

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de daily under the Wagner act.
Herward, only the Taft-Hartley law
be used. Thus, hundreds of cases
ich won't reach final decision by
g. 22 will be dismissed if the Taftirtley law has cut the ground out
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cases involving supervisors, some inving free speech, and many involvrefusal-to-bargain charges.

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Even where decisions in those cases handed down before the deadline, RB will lack the power to enforce m if they are against the employer of the employer refuses to comply.

Open Questions—Important proceral and policy questions for the postog. 22 period had not been decided hen J. Copeland Gray and Abe Murck, new board members, and Robert Denham, new general counsel, were ded to the NLRB team to serve inrim appointments. They will be subret to Senate confirmation next Janu-

Reappointed board members are hairman Paul M. Herzog, John M. ouston, James J. Reynolds, Jr. The w board will draft a general statement policies and procedures before the adline. This is required by the new ministrative procedures act.

Left for Decision—Even so, many postions will be left for decision in pecific situations. One, for example, is a right of workers in a craft unit to cition NLRB for certification separe te from an industrial unit of which hey are a part when no dispute exists etween the employer and a union repasenting the larger group.

The three reappointed members ancipated a flood of problems over handing the new law. They asked the staff veral weeks ago to present questions. The staff came up with 70 of them. The board members though they had aswers for some. Others required furter study and consultation with new members, who would have to partici-

Last week Houston, Reynolds, and Denham met with the Senate-House out study committee, which was given copy of the questions. The NLRB new went over them, indicating their fiews where they were formulated. When it was over, Sen. Joseph H. Ball, thairman, and Rep. Fred A. Hartley, t., vice-chairman, expressed satisfaction with the board's approach.

Troublesome—One of the most roublesome questions is the recognition to be given unions, particularly in the L.O., which intend to boycott NLRB. ome intend to refuse to register with the Labor Dept. or to file non-Communist affidavits for their officials. Such mions may be allowed to intervene in their own defense when their right to expresent the workers is challenged by mother union or when they are ac-



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cused of an unfair labor practice. But they cannot be certified. It's doubthin also, whether a nonregistered union w be allowed on an election ballot.

In this connection, and of more in mediate concern, is whether a decision can be issued on or after Aug. 22 in case filed before that date by a non registered union.

Foremen Revamp

Lewis' mine supervisors union takes on new form, name On the surface it's independent but some see U.M.W. influence

Officially, John L. Lewis' union of mine foremen is dead-cut from the rich, stout United Mine Workers' trunk The pruning was part of the price Lewi paid for his phenomenal wage agreemen (BW-Jul.12'47,p80).

But Lewis has never been known to cast aside a weapon because its further usefulness is only potential. His concept of a union of coal foremen is far from dead. Already an independent organiza tion has sprung up to take the place his District 50's affiliated United Cler ical, Technical & Supervisory Employ ees. The new group's name: The United Clerical, Technical & Supervisory Assa. of America. No connection between and U.M.W. has been established. But the extent to which the association can count on U.M.W. help is an open ques

· McAlpine's Climb-As a result of Lewis' bargaining, at least one member of his union was out of a job. He was John McAlpine, formerly on the mine workers' payroll as president of the U.C.T

As McAlpine closed up his organization's unpretentious offices in Pittsburgh, it was an undramatic end to his union's seven-year life. The seven year had been enlivened by scores of minor walkouts, two large strikes, and constant litigation. McAlpine's departure left the foremen organizing field to the newly formed association.

• How It Grew-McAlpine's union was chartered in 1940 as the Mine Officials Union of America. It later changed its title to U.C.T., and was welcomed into the U.M.W. in 1942. The same year, the union won bargaining rights from NLRB at the Union Collieries Co It later lost them when the board decided against foremen's unions in the guidepost Maryland Drydock case (BW) -May 15'43, p90).

U.C.T. went on its first rampage to win new recognition in 1944. By the time the National War Labor Board agreed to hold hearings, it had closed down 70 mines. When the board de-

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HN MCALPINE: John L. Lewis wrote his foremen's union and his job.

ded the operators could extend bar-nining rights to U.C.T. the union took case back to NLRB.

Later the union sought to test colctive bargaining rights for its fore-en at Jones & Laughlin Steel Corp.'s our Pennsylvania captive mines. A few lys before the hearings began in Pittsurgh in September, 1945, the foremen J. & L. pits struck in a show of trength. It was the spearhead of a walkut that within two weeks had closed ore than two-thirds of the coal-mining dustry (BW-Oct.27'45,p107).

Testing Ground-J. & L. thus became e testing ground for the entire indus-. The board, by a two to one deision, said the foremen had a right to emand a bargaining session. This was n important decision: It went a step beyond the earlier Packard case, in which only independent, nonaffiliated remen's unions were permitted to act. In elections at the J. & L. pits, U.C.T. aptured the production and maintenance foremen, but lost in the clerical, technical, and supervisory unit.

The steel corporation again took up the battle by opposing inclusion of the supervisors in the Krug-Lewis agreement of 1946. The NLRB filed an unfair abor charge against the corporation. But the issue will never be decided in that case. The board withdrew the suit when it gave up jurisdiction over foremen under the Taft-Hartley law.

• New Hope-The mine foremen realize their only present union opportunity lies with their new association. At its first reorganization meeting in Morgantown, W. Va., at the end of July it elected Samuel Willets, a 68-year-old, one-time weighmaster, as its president. About 80 foremen, mostly from northem West Virginia and a few from two J.&L. Pennsylvania mines, were present. Their aims: recognition and bargaining.

Willets claims one thing in his favor: The association is not affiliated with any

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SAMUEL WILLETTS: Is his revampe foremen's union free of Lewis?

organized group-meaning the U.M.W That was one objection to U.C.T.

• Talking-The association's new pr dent was a field representative of the U.C.T. for more than a year and a hall

"We're talking now to some oper tors," Willetts reports. "We th they'll recognize us. Strikes? I don believe in them."

• Fine Hand?-Some other operator however, have dealt with the U.M.W chief long enough to know how aproa biblical quotation can be in labor i lations. They confine their comment to: "The voice is the voice of Willett but the hand is the hand of Lewis."

JOBLESS PAY BARRED

The testy question of eligibility for unemployment compensation during strike has been answered in Michigan A new state law specifies that all work ers in a plant involved in a labor di pute become ineligible for jobless bene fits. A state court has overruled a Mich igan Unemployment Compensation Commission policy which allowed work ers not "directly interested" in a strike to collect the benefits.

Management has consistently opposed the Michigan commission's po icy set last year (BW-Sep.21'46,p2 It has contended that unions can close plants by striking only in one key de partment. Thus all except those in the one struck department have been able to collect jobless pay.

The court decision on the Michigan commission's general practice came in a Chevrolet Gear & Axle Division case Management appealed an M.U.C.C. d cision that 58 die workers were idle through no fault of their own during a U.A.W. strike. The court reverse the commission. A further appeal is possible. However, indications and strongly against any change in the new precedent.

BUSINESS WEEK . Aug. 9, 1947

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Small-time strike takes on nificance as an A.F.L. union arges an Illinois plant with lating a Taft act provision.

A small-time labor dispute involving 78-employee plant has suddenly lted into nationwide significance. 250n: The union in the dispute 250n: The union makes the Taft-Hartley act 250n was assumed that the new law all to their advantage may get a 250n.

Stripped of charges and counteringes, the strike is basically a union's ort to force recognition leading to contract. The International Brothood of Electrical Workers (A.F.L.), cal B-1031, claims to hold signed ds of 65 of the 78 employees in the int of Naxon Utilities Corp., Skokie, , a Chicago suburb. The firm makes per-size washing machines and other ctrical household appliances.

Refusal to Confer-The union asts that the employer has refused ore than 15 invitations to confer on ion recognition demands. These e come from the U.S. Conciliation vice, Illinois Dept. of Labor, and er public bodies, as well as the on, which has a standing request. nce the union charges that the pany is wilfully violating Sec. 204 (1) of the Labor Management Reons Act. This section provides that ployers and unions shall "exert every sonable effort to make and mainagreements concerning rates of hours, and working conditions." e union has told the company that picketing "is in protest against your tinued violation" of the law.

M. Frank Darling, president of the cal, is one of the I.B.E.W.'s up-and-ming younger men. His is an "amalmated" local, holding contracts for me 15,000 members in 41 Chicago-ta plants. Among them: American tenolic Corp., Jefferson Electric Co., lajestic Radio & Television Corp., ak Mfg. Co., Sonora Radio & Telesion Corp.

No Time Wasted-The Naxon firm by recently moved from Chicago to snew plant in Skokie. It was barely production when Darling's agents by busy. It looked like a pushover

It turned out to be a toughie. Irving id Meyer Naxon as yet have shown of enthusiasm for Darling's idea. Then 19 button wearers were laid in early June "for lack of steel," and no nonwearers got the axe, the



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program.



NO SHADE: Temperatures rise at the Naxon plant, where pickets miss their elm.

strike started. Most of the picketing has been relatively peacefully handled, with five to 10 Naxon employees on the line. But the record includes a couple of incidents at quitting time when 150 pickets from another of the local's plants roughed up some outbound workers.

• Damage Suits-Naxon is suing the union for \$300,000 for damages to company property during these settos. Seven nonstriking employees last week filed suits for \$10,000 apiece. The union, through its counsel, labor lawyer Joseph M. Jacobs, has filed unfair labor practice charges with the Chicago office of the National Labor Relations Board. Grounds are (1) discriminatory discharges, (2) refusal to meet with the union even to discuss how to bargain collectively, (3) company interference with self-organization activities of employees.

The union also has outstanding a justice-of-the-peace warrant for Naxon on grounds of violating a state law which provides that any employer advertising for help-wanted during a strike must state that a strike exists.

The Naxon plant at Skokie is scheduled for an early increase of capacity. It had construction under way when the strike started. Since then, there has been little progress in the expansion program except for the felling of a large elm tree which had afforded perspiring pickets a comforting shade. • Alarms and Excursions-Several riot alarms have been turned in by jittery souls. But they have brought city, county, and state squad cars to the plant to view so many instances of tranquil picketing by half-a-dozen sunbaked strikers that the cops are grumbling publicly. Police tempers have not been improved by the management's charges that law and order in Skokie have broken down under political pressure.

Union men have been annoyed occasional management sorties to the front steps to point out the futility of striking against a friendly employ Management ire has been roused periodic visits from the local's king-si trailer which might, to an apprehen sive eye, be bringing sizable reinforce ments for the pickets. But thus f the trailer has done nothing mon menacing than comfort the pickets with luncheons and iced drinks.

· Suit in Question-Whether or no counsel Jacobs will bring action in the U. S. District Court under Sec. 204 (a) (1) as he has threatened was st unknown at midweek. The Taft-Hart ley law makes no provision for en forcing the section by legal means Labor-law experts declare off-the-record that it probably would take years to ge judicial determination of enforceability of the section.

Hence, they reason, Jacobs is unlikely to haul the company's manage ment into court for what might tum into a delaying action of a sort that presumably would not desolate the Naxons. Instead, the experts guessing that the union will hold the Taft-Hartley clause as a moral justification for continuing its strike.

COPPER PEACE

Threats of a crippling copper producing and refining strike this year (BW-Jul.26'47,p73) have faded. New wage demands by C.I.O.'s Mine, Mill & Smelter Workers are expected to be settled by a 12¢ hourly pay boost and six paid holidays. The union estimates the over-all gain at 15¢ an hour. A stalemate which threatened to bring a strike of the industry's 19,000 M.M.S.W. workers broke at the Kennecott Copper Corp. After Kennecott agreed on terms, other major companies renewed negotiations.

AGE 83

ITERNATIONAL OUTLOOK

SINESS WEEK

SERVICE

The Labor government is meeting Britain's dollar crisis with a shock treatment (page 85).

Prime Minister Attlee spelled out his crisis plan to Parliament this week. His theme: The country can survive only if Britons consume less, produce more. New financial aid may come from the U. S. under the Marshall program; but Britain can't plan it that way.

To conserve dollars, the government is slashing imports, cutting expenditures on occupation forces in Italy and Germany.

To boost production of dollar-earning exports, it is demanding longer hours from workers, driving labor from nonessential to essential production, fixing higher export quotas for each industry.

Attlee has asked Parliament for almost unlimited powers to put his plan across.

If the bill passes, the government would have authority to:

- (1) Enforce higher productivity in industry, commerce, and agriculture;
- (2) Promote and direct exports, reduce imports at will;
- (3) Control all resources "to serve the interests of the community."

Conservatives demanded and got a promise that the bill would not be used "to make short cuts to socialism."

Britain's powerful Trade Union Congress quickly announced its approval of the Attlee plan. But popular reaction is still in flux. If there is a violent swing away from Labor, as some observers predict, a coalition government might have to take over—even though Attlee vehemently rejected the idea.

A new government would still have a \$2-billion export-import gap staring it in the face. It would be under the same compulsion to find a drastic cure for Britain's economic crisis.

This is not a production crisis in any ordinary sense. The over-all volume of output in Britain today is 10% to 20% higher than in 1938. The real job is to get the higher production where it will pay off, directly or indirectly, in exports. Coal and textiles are currently the weakest spots.

The open revelation of British weakness is forcing new foreign policy decisions on the U S. In fact, the British crisis caught Washington off guard.

Secretary Marshall had been counting heavily on both Britain and France to shore up the U. S. position abroad. Now his advisers are taking another look at the assumptions on which Marshall has based his policy.

No one doubts Foreign Minister Bevin's will to keep Britain solidly behind the U.S. But Washington experts figure that there won't be much power behind British foreign policy for a time at least. There can't be while the country is calling all hands on deck to save the ship.

This poses a neat question for Washington: How far should the U. S. go in bolstering up the British position at the expense of American commercial interests?

One of the main things the U. S. wanted out of the loan-to-Britain deal was a breakup of the Empire's preferential trade system. Britain agreed, now says it must back down.

It works this way: Under the U. S. loan agreement, Britain promised

INTERNATIONAL OUTLOOK (Continued)

AUGUST 9, 1947

not to use import restrictions that discriminated against U. S. goods. Today London can't spare the dollars to buy American fruit. So it will cut its fruit imports from the U. S. But, if the agreement stands, it must also pass up fruit that it could get from British colonies for sterling.

The U. S. was even keener to end London's wartime freeze on sterling. Britain agreed to make sterling convertible.

On July 15, the deadline set by the loan agreement, Britain completed most of the deals needed to make sterling convertible into dollars. Since that date, London has paid out dollars for the sterling earned by other countries in current trade with Britain. These countries can then spend the dollars on U. S. goods. But the drain on London's dollar supply has been heavier than expected. It is one reason why the British are cutting their own purchases in the U. S.

Marshall has agreed to U. S.-British talks on these questions of convertibility and discrimination.

Washington has another important decision to make on foreign economic policy. Should the U. S. allow the 16 Marshall plan European countries to go in for preferential buying?

European experts argue this way: Discrimination against U. S. goods may be necessary for several years. The need arises from the very lack of dollars that produced the Marshall plan. The U. S. is urging Europe to get together to cut its dollar credit requirements from the U. S. Therefore, it makes no sense to forbid European nations to cut their dollar needs by preferential deals.

Here's where the Marshall plan clashes with U. S. trade policy at Geneva:

Expansion of American exports is the U. S. goal at the Geneva meetings of the International Trade Organization. But the aim of the Marshall plan is to set Europe on its feet, make it less dependent on U. S. exports.

A \$23-million Export-Import Bank loan to Italy will bring good business to U. S. machine-tool builders.

Money is going to three big Italian firms: Fiat, producer of automobiles and marine engines; Montecatini, chemical manufacturers; and Pirelli, tire and cable makers.

The Export-Import Bank still has \$77 million earmarked for other Italian industries.

France has turned a cold shoulder to Italy's proposal for Franco-Italian economic integration (BW—Jul.26'47,p92).

The Italian steel industry is delighted. Under the deal proposed to Paris by Foreign Minister Sforza, Italy would have liquidated its steel production in favor of France.

U. S. steel companies. They will offer to work for American account to meet orders placed with the U. S. by Mediterranean, African, or Asiatic countries. They figure that they might get cut in on the pipe needed to build the Saudi Arabian oil line.

FACE TO head of B

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BUSINESS ABROAD



ACE TO FACE with another crisis, Prime Minister Attlee (left), and Sir Stafford Cripps, ead of Britain's Board of Trade, plan for a bare-bone British economy.

Tighter Belts in Britain's Crisis

Attlee plan imposes greater austerity on consumers, asks nore output from workers, strips economy to essentials. Imports, verseas expenditures cut until assurance from U.S. of further credit.

LONDON-Because it has no alemative, the Labor government will neet Britain's dollar crisis the hard ay-by imposing even greater austerty on the consumer and demanding nore production from the worker. his is the gist of the interim plan Prime Minister Attlee offered Parlianent this week.

Original idea was to hold up any rastic moves until October, when they ould be meshed with the over-all projet for recovery in Western Europe. but public alarm and growing presure from restive trade union backers orced Attlee to push up the date for he Labor government's retrenchment

Gamble-Attlee is gambling heavily n the willingness of the British people take a further cut in living standards nd still come up producing the goods. The Labor Party was solidly sold on he Attlee plan at a secret session last reek. But opposition critics look for different popular reaction—perhaps ven a political storm that will be violent mough to force Labor to seek a coali-

The government's aim is twofold:

(1) to defer exhaustion of Britain's gold and dollar resources until the U.S. decides whether it will back the Marshall plan with new billions in foreign aid (BW-Jul.26'47,p15); (2) to strip the British economy down to the essentials required for boosting exports to a level where the country can pay

· Goals-As worked out over the next few months, the program will be geared to achieve the following:

· Save about \$600 million on the 1947-48 import bill.

• Cut about \$200 million off 1947-48 overseas expenditures by speeding up troop withdrawals from Germany, Italy, and Greece and by cutting other German occupation costs.

• Increase production at home by an extra daily half-hour's work in coal and

other industries.

· Drive labor to undermanned industries such as textiles and coal by shutting off fuel and raw materials allocations to nonessential industries.

• Fix higher compulsory export quotas for each industry.

• Reduce excessive drain on limited manpower and material resources by

checking capital outlays in nonessential industries, if necessary by use of a

capital levy.

The British Treasury was ready three months ago with a list of dollar-saving import cuts (BW-May10'47, p101). By August 1, only tobacco, newsprint, and gasoline had been ticketed. The hope was that an across-the-board slash could be avoided. But during July, London had to speed up its withdrawals from the United States loan and a serious dollar crisis seemed immi-

• The Hard Facts-The basic facts are

• Under the existing import program, Britain's balance-of-payments deficit for the year starting June 30, 1947, would be close to \$2 billion.

• The remaining \$1 billion of the U. S. loan would cover only half of this, might even be used up by Octo-

· Britain would then be down to the \$400 million left in the Canadian loan and to a \$2.4-billion reserve fund of gold and dollar exchange. Until London has positive assurance of new dollar credits from the United States, it must try to hang on to most of these carefully husbanded reserves. For a country as dependent on international trade as Britain is, it would be risking national suicide to do otherwise.

Attlee, therefore, is aiming to reduce the prospective \$2-billion deficit by saving about \$800 million on imports and overseas expenditures and by increasing the take from exports.

• Food, Gas Cuts-Import cuts will be concentrated on meat, butter, canned foods, cereals, tobacco, and petroleum. Result is that food rations will probably have to be cut later this year; the gasoline ration will feel the pinch when the summer motoring season

Imports of various luxuries will be slashed to minimize the effect of shopping inequalities on the morale of the workers. United States film royalties will be hit.

Since the government will do its best to spare industrial raw materials, machinery, and capital equipment, the import saving expected from the Attlee plan won't be much above \$600 million. (This is roughly 10% of the existing import program.) So import cuts alone won't come close to eliminating the \$2-billion export-import gap.

• For Added Savings—The government, therefore, plans further moves to cut down overseas expenditures. These will include withdrawal of troops from Germany and other reductions in German occupation costs. Troops will be called home from Italy before ratification of the peace treaty, and probably also from Greece. But there is no intention of cutting British forces

Exports: One Prop of U. S. Economy Weakens

Since the start of the year, export demand has been one of the biggest single props under the booming economy of the United States. Now, for the first time, exports have begun to

• 13% Drop-Figures just released by the Dept. of Commerce show that U. S. exports in June were down to \$1,242,000,000. This is a good 13% below the postwar peak of \$1,422,-000,000 that they hit in May. Although foreign relief shipments dropped in June, the big shrinkage was in the regular buying of foreign countries. Commercial exports (excluding Lend-Lease, UNRRA, and foreign aid programs) were down to \$1,201,600,000-a drop of 12% from

The main reason for the slide is that some of the countries that have been doing the heaviest buying are now coming to the end of their financial rope. U.S. imports (only \$466million in June) have been too small to provide dollars for more than a fraction of the exports. Buyers have been making up the difference out of dollar balances, loans, or gold

• The Background-A study by the New York Federal Reserve Bank sketches in part of the background. According to the bank's estimate, the rest of the world (excluding Russia) had about \$18 billion in gold and

dollar exchange last March. This is a fair-sized war chest, but it has shrunk \$2 billion since last August. And the countries that are most desperate for U. S. goods are the shortest on re-

"Liberated" European countries had only about \$2.5 billion available in gold and dollar balances in March, 1947. Britain had \$2.6 billion. The neutral countries of Europe, mainly Switzerland, had \$2.5 billion. Latin American countries had a total of about \$3.5 billion.



in the Middle East, including Palestine.

These moves are slated to save another \$100 million to \$200 million. They also dovetail with the domestic need for labor from the forces. During the next three months British industry should get 50,000 more men than the government had been planning to re-

• Still Short-But at best, the projected savings would be about \$800 million. That's still less than 40% of the current deficit. If prices of British imports should continue rising faster than the prices of its exports, the effect of the cuts in imports would come to even

To get nearer a balance on international account the Labor government plans equally drastic measures on the home front. These will be aimed at boosting production and increasing ex-

 Accent on Coal—Increased output is needed above all in coal. At Attlee's request, leaders of the National Union of Mineworkers will consider an extra half-hour daily, and alternate Satur-

day morning shifts (with time-and-a-half for overtime). If the miners accept this, they could probably dig an extra 8 million to 10 million tons a year, might reach the 1947 goal of 200 million tons. This would avert the danger of a repetition of last winter's industrial shutdown (BW-Feb.15'47, p109).

But the miners resent being singled out for a heavier stint of work. The government will also have to ask railway workers, and perhaps others, for an extra half-hour. Building labor is being pressured to accept an incentive scheme, which will include an output bonus.

Many union leaders have accepted the need for greater effort. Some of them have been the strongest advocates of a tough policy. Productivity has already improved in manufacturing industries. But no one knows how long it will take to stir the miners and builders into action.

• Export Boosters-To get out more exports, higher compulsory export quotas will be fixed for each industry. The quota for automobiles is already

60%; in some other industries it's high as 75%. The government also have powers to direct exports hard currency countries such as

Higher purchase taxes may be in posed on exportable consumer go to discourage British buyers. The cla ing ration will drop to release m textiles for foreign buyers. The obe is to curtail domestic supplies of bo consumer goods and capital goods, gn exports a top priority all down

• Capital Outlays Under Fire-Ti whole economy is to be stripped action by putting the screws on n capital expenditures. Capital outla by business and government over to past two years are now regarded excessive compared with the nation resources in manpower and material The feeling now is that the nonesse tial industries were given far too mu

head.

The sharp break in the London stor market last week (page 91) has aut matically called a halt to most expan sion plans of small business. But case of need, the government is ported ready to impose a capital or forced loan to squeeze out any pla for new capital outlays that are essential to the export drive.

At the same time, private busine is pressing the government to cut if own budget. This may result in fur ther cutbacks in the housing program Reductions in the food subsidies (c rently costing about \$1.6 billion year may also be in the offing. A rise food prices would channel off some the inflationary pressure on a reduce supply of consumer goods.

• Pressure-The government is still luctant to go back to a labor draft meet the shortage and maldistribution of manpower. But it is getting read to reduce coal and raw materials all cations to nonessential industries i order to drive labor into undermanne lines such as coal and textiles.

Deflation of excessive demand of available resources is essential to a store a smooth flow of production rebuild inventories, and remove co cealed unemployment. The Attlee platis only the first attack on this ke domestic problem. Additional move can be expected on a piecemeal basi as the British crisis develops over the next six months.

• U. S. Congress Must Decide-If man agement and labor prove ready to make the sacrifices entailed in such a pro gram, and production goes up instead of down, Britain could probably put through until early next year. The the fate of the country would rest the lap of the U. S. Congress as mulls over the cost of the Marsha plan.

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SAFE!

To the cheering spectators, this play required great daring. Actually, areful planning combined with teamork, split-second timing and indidual skill had eliminated much of the risk before the play started.

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uccessful companies, as well as sucessful ball teams, minimize their isks through careful planning far n advance.

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Japanese Blueprint

Overseas Consultants, Inc., will determine how much industrial capacity Japan can afford for reparations.

A complete crew of industrial executives and engineers flew into Tokyo this week.

The plane's 30 passengers belong to a group known as Overseas Consultants, Inc. They embarked Tuesday from Washington in response to a request made last fall by Gen. MacArthur. He had asked the War Dept, for help in making an industrial survey of Japan. • Treaty Outline-The survey will be the basis of determining the U.S. position on reparations when the nations comprising the Far Eastern Commission get down to the business of writing

peace treaty for Japan.
This isn't the first time that the Army has called upon industry to supply it with top-flight technical skill for the occupation. But it is the first time that the size of a single order was such that a company was formed to do the job.

• Member Firms-Overseas Consultants, Inc., consists of eleven blue-ribbon industrial engineering firms: American Appraisal Co.; Coverdale & Colpitts; Ebasco Services, Inc.; Ford, Bacon & Davis, Inc.; F. H. McGraw & Co.; Jackson & Moreland; Madigan-Hyland; Sanderson & Porter; Stone & Webster Engineering Corp.; Standard Research Consultants, Inc.; and the J. G. White Engineering Corp.

President of Overseas Consultants, Inc., and also chairman of the board, is Clifford S. Strike. On leave from F. H. McGraw & Co., New Haven (Conn.) contractors. Strike is no newcomer to occupation work (box).

The Tokyo staff will be headed up by R. J. Wysor, former president of Republic Steel Corp. and one-time chief of U.S. Military Government's metals branch in Berlin. His assistants will be such men as Percy E. Joyce, consulting chemical engineer for Shell Chemical Co.; S. W. Farnsworth, president of the Torrington Manufacturing Co.; Roy S. Campbell, former president of N. Y. Shipbuilding Corp.; J. Stewart Harrison, one-time vice-president of Standard Oil Co. of Ohio and now consulting engineer to Standard Oil Co. of New Jersey.

· Teamwork-As "project manager," it will be Wysor's task to see that the various sections into which the group has been divided-steel, chemicals, shipbuilding, power, machine tools, petroleum-work as a team. They are to come up with the answers contracted for within six months.

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Clifford S. Strike

As head of the new Overseas Consultants, Inc., 45-year-old Clifford S. Strike has a backlog of experience in occupational affairs.

Back in July, 1945, he headed up the building materials and construction section of the U.S. Military Government in Germany; in November of the same year he was appointed deputy chief of the reparations section. As such he sweated out more than one industrial problem over a Berlin conference table with his French, British, and Soviet opposites.

Strike joined F. H. McGraw & Co. in 1930, subsequently became vice-president, then president.

The War Dept. wants to know (an it's paying Overseas Consultants son \$750,000 to tell it) how much indutrial capacity the Japanese econom can afford to give up in the way of reparations, and how much it must keep to become self-supporting. This is just another way of saying that the Army wants to have a fairly solid ide of what it will advocate as the min mum level of Japanese industry when treaty-making begins. The War Dept has already collected a mass of materia on this puzzler, including the results of studies made by the Pauley, Strike, and other special committees on reparations Part of the job, therefore, is to see ho much of this material stands up under the test of independent appraisal.

sition, having been formed expressly t blazed a new trail for the government to take when it hunts for help from private industry.

• New Trail?-Overseas Consultants. Inc., is supposed to be a one-shot proporace an industrial blueprint for Japan But if it succeeds it may well have

5. Has Big Financial ke in Ruhr Coal

Vashington may use a new argutin its current dispute with Lonover the nationalization of the r coal mines (BW-Aug.2'47,p85). be Stinnes Trust-State Dept. offihandling the negotiations are g urged to bring up, at least as a aining point, the large U. S. holdin the Ruhr coal industry. The ment: By utilizing the Americaned Stinnes trust-which gives the S. potential financial control over industry-unified operation of the es could be worked out under the ns of private enterprise. The U. S. financial interest dates

in 1924, shortly after the death of go Stinnes, the great German trustlder. In order to reclaim his proples from the German banks, his dow formed a Maryland holding
npany, Hugo Stinnes Corp. The
ter raised U. S. capital by floating
centures and selling not quite half
common stock, which is still
ded on the N. Y. Curb Exchange.
e entire Stinnes German equity was
med over to the corporation.

Control—Bankrupted in 1936 by Gern currency restrictions, the corporain still owns stocks in German holdgrand operating companies. Through system of interlocking holdings, these inpanies are believed to provide a introlling interest in much of the other coal industry.

Men familiar with the German coal dustry believe that the Stinnes inests control something close to 85% the top-grade coal in the Ruhr.

APC Steps In—At the outbreak of r, the German 54% interest in the 11go Stinnes Corp. was seized by the 12go Stinnes Corp.

HINESE MEASURE

With the aid of the U. S. State Dept., hina may beat the United States to ficial adoption of the metric system. A department representative, Dick-n Reck, is helping China complete an inbryonic weights and measures system. In an initial survey Reck found hat every trade and every locality in hina had a different way of measuring ounds, feet, and gallons. So for a bugh start he got a foot declared to be a meter, a pound ½ a kilogram, and gallon 1 liter.

The State Dept. believes such work fill hasten Chinese industrialization, and make U. S. trade with that country

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HE MARKETS (FINANCE SECTION-PAGE

Security Price Averages

	This Week	Week Ago	Month Ago	Year Ago
Stocks			•	0
Industrial	153.2	152.3	153.2	171.9
Railroad	43.8	44.1	43.7	60.2
Utility	76.3	75.7	76.6	90.1
Bonds				
Industrial	123.9	122.4	123.0	123.2
Railroad	110.5	110.7	110.3	117.8
Utility	113.7	113.8	113.6	115.2

Data: Standard & Poor's Corp.

Market's Dog Days

Over the past 49 years industrial stocks have staged 36 August rallies; 32 Augusts have seen the rails move up. Only five times in the last decade, however, has the industrial section of the stock list managed to climb higher; only three times have the rails ended August at higher levels than when the month started.

• What About '47?-Which precedent will be followed this time is still anyone's guess. Up to the middle of this week, early August trading had uncovered no clues. Nothing had happened but daily see-saw price movements accompanied by a sharp shrinkage in trading activity. Not even Wall Street's most fervent bulls today want to go out on a limb with predictions of the possible direction of prices when the siesta finally ends.

The profit-taking that has been going on lately among the industrial shares has been no surprise. It was sure to come, sooner or later. Reason: As measured by Dow-Jones industrial

stock price average, the group row most 23 points between mid-May late July

• Hope Dashed-Many market dents, however, had hoped that de confirmatory strength in the rails in take up the slack created by the ing in on profits in the indust That this shows no signs of ham ing has proved very disappointing to an increasing number of tra it's beginning to indicate that the cent promising rally was only a dary upswing in a bear market. the starting phase of a brand-new market move.

That's not to say that stocks in weeks ahead can't move higher. tually, it's quite possible that they since recent booming production's ules, high commodity prices, earnings, and higher dividends slated to vanish abruptly. Some smart investors, however, claim to signs indicating that such favora market influences may soon start tas ing off. And some well-proved some of stock market advice agree.

Municipal Dealers Wary

When the Chicago Transit Box knocked this week, Richard refused open the door.

Tuesday morning, not one under ing group stepped forward to offe firm bid for \$105 million of new bon The recently organized munic agency (BW-Jun.28'47,p44) must them to finance acquisition of Chicag

COMMON STOCKS—A WEEKLY RECORD 50 Industrials 160 140 120 KEY: Week's High Close - Week's Low 60 (1926 ± 100) July Aug. Sept. Oct. Nov. Dec. Jan. Feb. Mar. Apr. May June July 1946 1947 O BUSINESS WEE

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BUSINESS WEEK . Aug. 9, 19

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PAGE

Too Little Strength-Harris Hall & o., Blyth & Co., and the First Boston orp. had been sure that they could orm a strong enough buying syndicate handle the deal. But last minute aler resignations flooded in. Those fit were willing to take on only \$80-illion of the bonds. Result: The synicate had to be dissolved.

But the houses heading the abortive roup refused to admit defeat. Calling he bonds "not only good but salable," hey quickly placed before the board a cw financing proposal. They suggested hat the board let them offer, for a criod, 3½% to 3½% bonds, according

maturity, as agents.

Transfusion—If this were done, the ouses said, the group would spend 100,000 on advertising to familiarize he buying public with the issue. If this rought subscriptions for 80% of the fering, the group would then guarante complete sale of the issue by Sept.

The board agreed. To some observers, his looked like the kind of transfusion

eeded.

Board chairman Philip Harrington inimates that politics has played its part a spoiling the authority's debut. But the facts don't back him up.

Lost Attraction—The awful truth is that municipal issues of less-than-high-rade investment quality have lost their varime attraction—despite their tax-exempt status. Particularly hard hit have been the so-called "revenue bonds" of government agencies which have no principal and interest claims in either the general revenues or resources of the "parent" city or state.

Now this group must compete with similar-quality corporate issues. That's why underwriters last week refused to bid, at the terms demanded, for \$22-million of Cleveland Transit System evenue bonds. And it is why Alabama has twice unsuccessfully tried to sell a \$4-million issue of dock revenue obligations. Municipal dealers now have on their shelves too many unsold chunks of earlier revenue-bond offerings to take my further chances.

British Market Dives

What has caused the sudden eclipse of the "bull market rally" that was progressing so merrily until very recently? If you query Wall Street on that point you get a raft of widely different explanations.

• Agreement—On one point, however, you find unanimity. Bulls and bears alike report that uneasiness caused by the serious price drops in the London markets (BW—Aug.2'47,p83), and the portentous events they may be forecasting, are at least partly to blame.

Whether that's actually true or not of course can't be proved. But it sounds logical enough. After all:

 A close affinity between the two markets has always existed.

• History shows that severe financial trouble in London sometimes touches off bad British slumps; on occasion, these have been followed by U. S. depressions. (The Baring Bros. crisis in the early 1890's and the notorious Hatry failure in the late 1920's are two good examples.)

Thus many stock market participants, especially the professional traders, have been paying more than cursory attention to current London troubles. And they have hedged their bets accordingly. Certainly the London market's performance last week appears to warrant a stop-look-listen attitude.

• What's Behind It—Causes of the slump, the worst seen in the English markets since the 1940 "fall of France" panie, aren't difficult to find:

• The public's growing awareness of the nation's critical economic position;

• Fears over what will happen when the dollar credit is exhausted;

• Rumors of serious behind-the-scenes political tension;

 Speculation over the nearness of a tense general election;

• Doubts that the Labor Party can carry through the measures needed to meet the present touch-and-go situation.

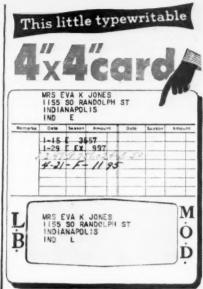
Few corporate securities were left untouched by last week's panicky wave of sell orders. Gilt-edge issues were as vulnerable as the speculative group. Not until late Friday was the precipitous decline slowed down.

• Government Weak—But even more alarming was the performance of the British Treasury issues. Reflecting a decided lack of confidence in the government's ability to maintain its announced money policy in the face of today's economic problems, that group more often than not actually led the decline.

One particular target was the Labor government's recent issue of 2½s. These were issued by Chancellor of the Exchequer Hugh Dalton primarily to finance socialization of the coal mines and the Bank of England. They had been consistently weak for the past six weeks; during last week's slump they tumbled six points to around 83% of par—a new low. At that level they would appear to establish British government credit, temporarily at least, on a 3% basis (Dalton has been striving to maintain it at 2½% or lower).

• Watchful Waiting—Early this week

• Watchful Waiting—Early this week London's security markets were acting a bit better—probably marking time until they can assess Prime Minister Attlee's plan for meeting the crisis (page 85). Not until that has been done, obviously, can the future price trend take shape.



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THE TREND

CONFUSION ABOUT METAL RESERVES

Our colleagues who edit the Engineering & Mining Journal feel strongly that the country is being dangerously confused by misleading reports that we are now "have-not" so far as such key metals as copper, lead, and zinc are concerned. The misunderstanding, they fear, will lead to dangerous mistakes in forming a policy to meet our needs of these important metals. They have convinced us that there is some consequential confusion about the reserves in question and that we ought to try to help clear it up.

The key source of confusion seems to lie in the failure of laymen to differentiate between known deposits of commercial quality and potential reserves. Figures on mineral reserves do not include deposits which cannot be profitably exploited at approximately existing prices or with present extraction techniques. Nor do they allow for discovery of new deposits or extensions of known deposits beyond the point where definite evidence of size and quality are established.

There is no dispute that proved commercial-quality reserves are low. The Bureau of Mines and Geological Survey reports that, in terms of the 1935-44 average annual rates of extraction, our known commercial reserves would last the following number of years: petroleum, 14 years; copper, 25 years; lead, 15 years; zinc, 24 years. And present rates of extraction are generally considerably higher than the 1935-44 average.

However, important additions can be made to known reserves. One possibility lies in deposits which, because of low quality or inaccessibility, have not been profitable in the past. Price increases have brought some of these into commercial use. New techniques can make others workable. The "red mud" process now used with Arkansas bauxite increased Arkansas reserves from two years to several decades.

Several factors also suggest that there are still deposits

NOTE ON INDUSTRY-WIDE BARGAINING

We have received a publicity release from Richard T. Leonard, vice-president and national U.A.W.-C.I.O. Ford director, in which he properly takes pride in the fact that "U.A.W.-C.I.O. Ford workers became the first in the automotive industry to win retirement pay in a contract with the Ford Motor Company."

Would Mr. Leonard have had the privilege of proclaiming his historic success in negotiating such a bold and significant departure as the Ford pension plan (or in negotiating a watering down of Taft-Hartley act, for that matter) if industry-wide bargaining had prevailed in the automotive industry?

Lest there be doubt about it, the answer is, "No."

SALUTE TO A FRANK FORECASTER

Along with a legion of other economists, Everett E. Hagen, who is now associated with the Budget Bureau in Washington, made a post-V-J Day economic forecast which envisaged over eight million unemployed in the first quarter of 1946. Unlike most members of this legion, however, Hagen not only does nothing to cover up but frankly proclaims (in the Review of Economic Statistics) that "the primary fact to be noted concerning the forecast is that it was conspicuously in error." Then he goes on to analyze the sources of the error.

To Everett E. Hagen, a salute for frankness far above the call of custom in his field!

to be found and measured. For one thing, most mine operators make no attempt to learn the extent and quality of their deposit. Requirements are simply blocked out a few years ahead of extraction. In some mining areas, it is actually poor business to know too much about the deposit as it increases ad valorem taxes.

This is one reason why "proved reserves" are still roughly the same as they were 10 or 15 years ago, despite the depletion that has taken place since. This is true even though little exploration was done during the war.

All of this, of course, does not mean that the country can afford to be unconcerned about its mineral resources. Metals are one-crop harvests; once dug, they are not replaced. Gradual depletion is an obvious fact. But the realization that there are potential reserves still to be tapped does have an important effect on what the country should do about making the most of them.

What seems clearly called for is a policy which will simultaneously (1) stimulate exploration and investment in domestic metal mining, and (2) still permit ample imports at reasonable prices. Imports must be made in large volume, but they should not swamp efforts to maintain reasonable self-sufficiency. As a matter of fact, in proved reserves of some metals, the world as a whole is nearly as badly off as we are.

It is, of course, far easier to indicate the broad outlines of a good policy than it is to effectuate it. For example, the form which added incentives to exploration (an increasingly complex and expensive business) should take—tax adjustments, subsidies, special bonuses—raises a myriad of difficult problems.

Such problems will be more easily solved, however, if we get squared away on a policy which strikes a balance between encouraging development here and not overtaxing us on the imports that will have to be made Elimination of undiscriminating emphasis on our future as a "have not" nation is a major step in this direction.

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